

RCRA HAZARDOUS WASTE FACILITY  
COMPLIANCE EVALUATION INSPECTION CHECKLIST

Facility: AMERICAN STEEL FOUNDRIES SEBRING FACILITY  
USEPA I.D.: OHD 017 497 587 HWFB No.: 02-50-0366  
Street: LOCATED AT CORNER OF LAKE PARK BLVD & HEACOCK  
City: SMITH TOWNSHIP State: OH Zip: \_\_\_\_\_  
County: MAHONING Telephone: N/A  
Fax No: N/A PUCO No.: N/A  
Owner/Operator: AMSTED INDUSTRIES INC  
Street: 205 NORTH MICHIGAN AVENUE  
City: CHICAGO State: IL Zip: 60601  
Telephone: ALLIANCE: 216 823 6150 ~~Fax:~~ CHICAGO: 312 645 1700  
Inspection Date: 01/11/94 Time: 09 - 35  
Advance notice of inspection given? (yes) \_\_\_\_\_ (no) ✓  
If so, how far in advance? \_\_\_\_\_

	<u>Name</u>	<u>Agency/Title</u>	<u>Phone</u>
Inspectors:	<u>JOHN PALMER</u>	<u>OEPA</u>	<u>216 963 1232</u>
	<u>KAREN NESBIT</u>	<u>OEPA</u>	<u>216 963 1200</u>
Facility Representative:	<u>TERRY BRADWAY <del>OEPA</del> AMSTED 216 823 6150 x200</u>		

STATUS

Cond. Ex. SQG \_\_\_\_\_ SQG \_\_\_\_\_ Large Quantity Generator \_\_\_\_\_  
Treatment \_\_\_\_\_ Storage \_\_\_\_\_ Disposal ✓ Transporter \_\_\_\_\_  
Part A Permit: (yes) \_\_\_\_\_ (no) ✓ Part B Permit: (yes) \_\_\_\_\_ (no) ✓  
LDR Checklist Attached: (yes) \_\_\_\_\_ (no) ✓

ACTIVITIES

Containers _____	Used oil burner _____
Tanks _____	Hazardous waste fuel burner/blender _____
Wastepile _____	Incineration/Thermal treatment _____
Landfill <u>✓</u>	Land treatment _____
Surface Impoundment _____	Groundwater monitoring <u>✓</u>

REMARKS - GENERAL INFORMATION

Include a list of wastes being managed at the site and a brief description of site activity and waste handling procedures:

FORMER LAND DISPOSAL FACILITY FOR SOLID  
WASTE & EAF BAGHOUSE DUST. CURRENTLY  
NEITHER GENERATING WASTE NOR RECEIVING  
WASTE FROM OFF SITE. CLOSURE PLAN  
SUBMITTED & UNDER REVIEW BY OEPA.

[illegible][illegible]

PERMIT STATUS

**GENERAL REQUIREMENTS**

Y/N/NA RMK #

1. Has the owner/operator submitted a Part A application to Ohio EPA in accordance with OAC 3745-50-40?

Y, THEN WITHDRAWN

When was the owner/operator's Part A submitted:

WITHDRAWN

2. Is the owner/operator operating in compliance with the terms and conditions of its HWFB permit?

N/A

If not, has a Permit Change Request (PCR) been submitted in accordance with 3745-50-51?

N/A

If yes, what date was the PCR submitted?

N/A

3. Has the owner/operator submitted a Part B?

N

**PERMIT BY RULE REQUIREMENTS**

4. Has there been a rule or statute change which has caused the owner/operator to become subject to Ohio's hazardous waste facility permitting requirements?

N

a. If so, please describe the rule change below:

N/A

b. What was the effective date of the rule or statute change in Ohio?

N/A

c. Did the owner/operator submit a Part A to the Director in accordance with the requirements of OAC rule 3745-50-40 (C) (D)?

N/A

**NOTE:** In accordance with 3745-50-40 (D), owners/operators are required to submit the Part A within 30 days after the date they first become subject to Ohio's TSD facility standards. Small quantity generators who treat, store or dispose of wastes were required to submit a Part A by the effective date OAC Rule 3745-50-40. [See OAC Rule 3745-50-40]

d. Did the owner/operator notify the US EPA of its hazardous waste activity? [3745-50-40 (C) (1) (a)]

N/A

i. What was the date of notification?

N/A



OAC 3745-65-et seq. GENERAL FACILITY STANDARDS

**IDENTIFICATION NUMBER (OAC 3745-65-11)**

Y/N/NA RMK #

1. Has the facility owner/operator received an identification number from Ohio EPA (or US EPA) as required by OAC 3745-65-11?

Y \_\_\_\_\_

**ANNUAL REPORT REQUIREMENT (OAC 3745-65-75)**

2. Has the owner/operator submitted an annual Treatment-Storage-Disposal report to the Director of Ohio EPA by March 1st of each calendar year? [3745-65-75]

Y \_\_\_\_\_

**WASTE ANALYSIS/WASTE ANALYSIS PLAN (OAC 3745-65-13)**

3. Does the owner/operator (o/o) have a detailed chemical and physical analysis of the waste material containing all of the information which must be known to properly treat, store or dispose of the waste as required by 3745-65-13 (A) (1)?

N/A \_\_\_\_\_  
HAS ONE, BUT:  
SEE  
7/12/93  
CONSENT  
ORDER

4. Is the waste analysis repeated when a process or operation generating hazardous waste changes? [3745-65-13 (A) (3) (a)]

N/A \_\_\_\_\_

5. **For off-site facilities;** Is the waste analysis repeated when results of inspections under 3745-65-13 (A) (4) reveal hazardous waste received at the facility does not match the waste designated on the accompanying manifest? [3745-65-13 (A) (3) (b)]

N/A \_\_\_\_\_

6. Does o/o have a written waste analysis plan which includes the following information [3745-65-13 (B) (1) through (6)]:

- a. The parameters for which each hazardous waste will be analyzed and rationale for the selection of these parameters? [3745-65-13 (B) (1)]

N/A \_\_\_\_\_

- b. The test methods to be used? [3745-65-13 (B) (2)]

N/A \_\_\_\_\_

- c. The sampling method which will be used, either one of the sampling methods described in Appendix I of 3745-51-20 or an equivalent method as defined in OAC 3745-50-10? [3745-65-13 (B) (3) (a) (b)]

N/A \_\_\_\_\_

- d. The frequency with which the initial analysis of the waste will be reviewed/repeated to ensure that the analysis is accurate and up-to-date? [3745-65-13 (B) (4)]

N/A \_\_\_\_\_

- e. **FOR OFF-SITE FACILITIES:** The waste analysis that hazardous waste generators have agreed to supply? [3745-65-13 (B) (5)]

N/A \_\_\_\_\_

- f. **FOR OFF-SITE FACILITIES:** The sampling methods and procedures which will be used to inspect and, if necessary, analyze each movement of hazardous waste received at the facility to ensure that it matches the identification of the waste on the manifest [3745-65-13(C)]?

N/A \_\_\_\_\_

- g. **FOR FACILITIES OPERATING SURFACE IMPOUNDMENTS EXEMPT FROM LAND DISPOSAL RESTRICTIONS UNDER 3745-59-04(A):**

N/A \_\_\_\_\_

Does the waste analysis plan include procedures and schedules for:

- i. The sampling of impoundment contents?  
[3745-65-13(B)(7)]
- ii. The analysis of test data? [3745-65-13(B)(7)]
- iii. The annual removal of residues which are not delisted or which exhibit the characteristic of a hazardous waste and either do not meet treatment standards (3745-59-44) or where no treatment standards have been established?  
[3745-65-13(B)(7)]

N/A \_\_\_\_\_  
N/A \_\_\_\_\_

- h. **Where applicable:** The methods which will be used to meet the additional waste analysis requirements of rules 3745-59-07, 3745-67-25, 3745-67-52, 3745-67-73, 3745-68-14, 3745-68-41, 3745-68-75 and 3745-69-02 of the OAC? [3745-65-13(B)(6)]

N/A \_\_\_\_\_

N/A \_\_\_\_\_

#### WASTE ANALYSIS PLAN - LDR REQUIREMENTS

**NOTE:** The following requirements identified in Question #7 apply to both on-site and off-site TSD facilities.

7. In accordance with OAC Rule 3745-65-13(B)(6), does the the facility's waste analysis plan includes analytical procedures necessary to ensure compliance with the land disposal restriction requirements of Chapter 3745-59, including:

- a. Procedures for conducting the TCLP for wastes which have a CCWE treatment standard?
- b. Procedures for conducting a total constituent analysis for wastes which have a CCWE treatment standard?

N/A \_\_\_\_\_

N/A \_\_\_\_\_

OPERATING RECORD REQUIREMENTS (OAC 3745-65-73)

Y/N/NA RMK #

1. Does the o/o maintain a written operating record at the HAS ONE facility as required by 3745-65-73 which contains the REQUIRED SPECIFICALLY FOR following information: INSPECTIONS ONLY - SEE 7/12/93 CONSENT DECREE
  - a. Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date and method pertinent to such treatment, storage or disposal? [3745-65-73(B) (1)] N/A
  - b. As required by the Appendix to 3745-65-73, does the information specified in Question 1a include:
    - i. Common name, EPA hazardous waste identification number and physical state (solid, liquid, gas) of the waste? N/A
    - ii. The estimated (or actual) weight, volume or density of the waste? N/A
    - iii. A description of the method(s) used to treat, store or dispose of the waste using the EPA handling codes listed in Table 2 of OAC 3745-65-73? N/A
  - c. The present physical location of each hazardous waste within the facility and cross references to specific manifest document numbers? N/A
  - d. Records of incidents which required implementation of the contingency plan? N/A
  - e. Records of any waste analyses and trial tests required to be performed? N/A
  - f. Records of the inspections required by the general inspection requirements under 3745-65-15? Y
  - g. Records of any monitoring, or analytical data required under other subparts as referenced by 3745-65-73(B) (6)? N/A
  - h. **FOR DISPOSAL FACILITIES**, location and quantity of each hazardous waste recorded on a facility map and cross-references to manifest document numbers? [3745-65-73(B) (2)] N/A
  - i. Records of closure cost estimates and post-closure (DISPOSAL ONLY) cost estimates required by OAC 3745-66? SEE CLOSURE PLAN

2. Does the operating record include documentation required to be maintained under the land disposal restriction requirements of Chapter 3745-59? [3745-65-73(b)(9) through (14)]

N/A

**NOTE:** The following recordkeeping requirements are applicable only to off-site TSDS.

3. Are manifests received by the facility signed and dated? [3745-65-71(A)(1)]
4. Is one copy given to the transporter, one copy sent to the generator within 30 days and one copy kept for at least 3 years? [3745-65-71(A)]
- a. If shipping papers are used in lieu of manifests (bulk shipments, etc.), are the same requirements met [3745-65-71(B)]?
- b. Are any significant discrepancies in the manifest, as defined in 3745-65-72(A) noted in writing on the manifest document?
5. Have any manifest discrepancies been reconciled within 15 days as required by 3745-65-72(B) or has the o/o submitted the required information to the Director?
6. If the facility has accepted any unmanifested hazardous wastes from off-site sources for treatment, storage, or disposal, has an unmanifested waste report containing all the information required by 3745-65-76(A) been submitted to the Director within 15 days?

N/AN/AN/AN/AN/AN/A

**REMARKS - OPERATING RECORD REQUIREMENTS**

## GENERAL INSPECTION REQUIREMENTS (OAC 3745-65-15)

Y/N/NA RMK #

1. Does the o/o inspect the facility on a weekly basis for malfunctions, deterioration, operator errors and discharges which may cause a release of hazardous waste or hazardous waste constituents or may pose a threat to human health? [3745-65-15(A) (1) (2)] If so, Y \_\_\_\_\_

a. Are the inspections recorded in an inspection log or summary as required by 3745-65-15(D)? [3745-65-15(A)] Y \_\_\_\_\_

b. Do records contain date and time of inspection, name of inspector, notation of observations made and date and nature of any repairs or remedial actions as required by 3745-65-15(D)? [3745-65-15(A)] Y \_\_\_\_\_

c. Are inspection records maintained at the facility for at least (3) years as required by 3745-65-15(D)? [3745-65-15(A)] Y \_\_\_\_\_

INSPECTION  
BEGAN IN  
FEB 1992

2. Has the owner/operator developed a written inspection schedule for inspecting; monitoring equipment, safety equipment, emergency equipment, security devices and operating and structural equipment (e.g. dikes, sumps)? [3745-65-15(B)] If so, Y \_\_\_\_\_

SECTION  
4.1 OF  
CONTINGENCY  
PLAN

a. Is the schedule kept at the facility? [3745-65-15(B) (2)] Y \_\_\_\_\_

b. Does the schedule identify the types of problems which are to be looked for during the inspection? [3745-65-15(B) (3)] Y \_\_\_\_\_

c. Does the schedule include inspection of areas subject to spills (i.e. loading and unloading areas) daily when in use and according to other applicable regulations when not in use? [3745-65-16(B) (4)] Y \_\_\_\_\_

NOTE: See Preparedness and Prevention checklist for additional testing/recordkeeping requirements applicable to emergency equipment.

REMARKS - GENERAL INSPECTION REQUIREMENTS

SECURITY REQUIREMENTS (OAC 3745-65-14)

Y/N/NA RMK #

1. a. Would physical contact with the waste structures or equipment injure unknowing/unauthorized person or livestock entering the facility? [3745-65-14(A)(1)] Y \_\_\_\_\_
- b. Would disturbance of the waste cause a violation of the hazardous waste regulations? [3745-65-14(A)(2)] Y \_\_\_\_\_

IF BOTH 1A AND 1B ARE NO, MARK QUESTIONS 2 AND 3 NOT APPLICABLE.

2. Does the facility have -
  - a. A 24-hour surveillance system, or; N \_\_\_\_\_
  - b. An artificial or natural barrier and a means to control entry at all times? [3745-65-14(B)(2)(a)(b)] Y \_\_\_\_\_
3. Does the facility have a sign "Danger-Unauthorized Personnel Keep Out" at each entrance to the active portion of the facility and at other locations as necessary? [3745-65-14(C)] Y \_\_\_\_\_

REMARKS - SECURITY REQUIREMENTS

OAC 3745-66 CLOSURE AND POST CLOSURE

Y/N/NA RMK #

1. Is a written closure plan on file at the facility which contains the following elements: [3745-66-12]?  

Y
- a. A description of how each hazardous waste management unit will be closed in accordance with 3745-66-11?  

Y
- b. A description of how final closure will meet the requirements of 3745-66-11?  

Y
- c. An estimate of the maximum amount of hazardous waste ever in inventory?  

Y
- d. A description of steps taken to remove or decontaminate facility equipment containment systems, structures, soils, and all hazardous waste residues?  

Y
- e. The year closure is expected to begin and a schedule for the various phases of closure?  

Y
- f. A description of other activities necessary to ensure closure with the performance standards including ground water monitoring, leachate collection, and run-off control?  

Y
2. Has the closure plan (and post-closure plan, if applicable) been amended 60 days prior to any changes in facility design, processes, or closure dates or 60 days after an unexpected event occurs which affects the closure plan? [3745-66-12(C)]  

N/A
3. Has the closure plan (and post-closure plan, if applicable) for surface impoundment, waste pile, land treatment or landfill units been submitted to the Director 180 days prior to beginning the closure process? [3745-66-12(D)]  

Y
4. Has the closure plan (and post-closure plan, if applicable) for any non land disposal unit(s) been submitted to the Director 45 days prior to beginning the closure process? [3745-66-12(D)]  

N/A
5. Within 90 days of receipt of the final volume of waste or Director's plan approval, if that is later, was all hazardous waste treated, removed, or disposed in accordance with the approved plan? [3745-66-13(A)]  

N/A

PLAN STILL UNDER OEPA REVIEW
6. Was closure completed in accordance with the approved plan within 180 days after receipt of final volume of waste or approval of the plan, if that is later? [3745-66-13(B)]  

N/A
7. Did the owner/operator submit to the Director, within sixty (60) days after completion of closure, certification by both the owner/operator and an independent registered professional engineer that the facility has been closed in accordance with the approved closure plan? [3745-66-15]  

N/A

FACILITY NOT CLOSED

8. Did the owner/operator submit to the local zoning authority and the Director a survey plat in accordance with OAC 3745-66-16?

N/A

9. What permitted units at the facility have been closed in accordance with an approved closure plan?

FACILITY NOT CERTIFIED CLOSED  
PLAN UNDER OEPA REVIEW

10. If closure was partial, list the regulated units which remain in use at the facility:

CLOSURE WILL BE COMPLETE WHEN CERTIFIED

11. If required, has the facility prepared a written post-closure plan? [3745-66-18]

Y

If so, does the post-closure plan include:

SEE SECTION II  
OF CLOSURE  
PLAN

- a. A description of proposed ground water monitoring?

- b. A description of planned maintenance activities?

- c. The name, address and phone number of person/office to contact during the post-closure period?

SEE SECTION  
2.1 OF CLOSURE  
PLAN

12. For disposal facilities; has the owner/operator submitted to local land authorities and the Director a survey plat within 60 days after certification of closure? [3745-66-19]

N/A - NOT  
CERTIFIED  
CLOSED

13. Has the owner of the property on which a disposal unit is located recorded on the deed that:

- a. The land has been used to manage hazardous waste and the type, quantity and location of waste?

- b. Land use is restricted under closure and post-closure rules? [3745-66-19]

REMARKS - CLOSURE/POST CLOSURE REQUIREMENTS



PERSONNEL TRAINING (OAC 3745-65-16)

Y/N/NA RMK #

1. Does the generator provide a personnel training program in compliance with 3745-65-16(A) (B) (C) including instruction in safe equipment operation and emergency procedures, and implementation of the contingency plan? [3745-52-34(A) (4)]
2. Does the generator provide personnel training to new employees within 6 months after the date of employment as required by 3745-65-16(B)? [3745-52-34(A) (4)]
3. Does the generator provide an annual refresher training course as required by 3745-65-16(B)? [3745-52-34(A) (4)]
4. Does the generator keep all the records required by 3745-65-16(D) (E) including; written job titles, job descriptions and documented employee training records? [3745-52-34(A) (4)]

Y

Y

N #1

Y

TITLES AND DESCRIPTIONS - SEE § 5.0 OF CONTINGENCY PLAN

REMARKS - PERSONNEL TRAINING REQUIREMENTS

REQUIRED PER 7/12/93 CONSENT DECREE

#1 Last annual training 1-5-93 and 1-9-93  
Last contingency plan training 12-23-92 (PCRA TRAINING)

~~note: Personnel training program not in operating record (OR)~~  
~~written job titles and job descriptions also not in OR.~~  
~~BUT NOT APPLICABLE - PRESE~~

OAC 3745-68 LANDFILLS

GENERAL OPERATING REQUIREMENTS

Y/N/NA RMK #

1. Does the facility provide the following:

- a. Run-on control capable of handling a 24-hr, 25-yr storm? [3745-68-02 (A)]
- b. Run-off control capable of handling a 24-hr, 25-yr storm? [3745-68-02 (B)]
- c. If <sup>UNKNOWN</sup> run-off is hazardous waste, is it managed in accordance with applicable rules? [3745-68-02 (B)]
- d. Are facilities associated with run-on and run-off control systems managed to maintain design capacity after rain events? [3745-68-02 (C)]
- e. Control of wind dispersal of hazardous waste? [3745-68-02 (D)]

N \_\_\_\_\_  
N \_\_\_\_\_  
? \_\_\_\_\_  
N/A \_\_\_\_\_  
N \_\_\_\_\_

REMARKS - LANDFILL GENERAL OPERATING REQUIREMENTS

SURVEYING AND RECORDKEEPING REQUIREMENTS

2. Does the operating record include the following information as required by OAC 3745-68-09:

- a. A map showing the exact location and dimensions of each cell? [3745-68-09 (A)]
- b. The contents of each cell and the location of each hazardous waste type within each cell? [3745-68-09 (B)]

N/A \_\_\_\_\_  
N/A \_\_\_\_\_  
SEE  
7/12/93  
CONSENT  
DECREE

3. Are ignitable or reactive wastes treated so the resulting mixture is no longer ignitable or reactive? [3745-68-12]

N/A

**NOTE:** If waste is rendered non-reactive or non-ignitable, see treatment requirements. If not, the provisions of 3745-65-17 and 3745-68-12(b) apply.

4. Does the owner/operator dispose of incompatible wastes in separate cells? [3745-68-13] If not, the provisions of 3745-68-15 apply.

N/A

5. Are empty containers crushed flat, shredded, or similarly reduced in volume before being buried beneath the surface of the landfill? [3745-68-15]

N/A

6. Are containers at least 90% full prior to placement in the landfill?

N/A

7. Is bulk or non-containerized liquid waste or waste containing free liquids treated so that free liquids are no longer present? [3745-68-14(A)]

N/A

8. Are containers other than lab packs, ampules, batteries or capacitors holding free liquids placed in the landfill? [3745-68-14(B)]

N/A (N)

- a. If yes, has all free liquid been removed, absorbed or otherwise eliminated?

N/A

9. Has the owner/operator employed Method 9095 (Paint Filter Liquids Test) to demonstrate the absence of free liquids in containerized or bulk waste? [3745-68-14(D)]

N/A

10. Are the special requirements for lab pack waste met? [3745-68-16]

N/A

**REMARKS - SURVEYING AND RECORDKEEPING REQUIREMENTS**

LANDFILL CLOSURE AND POST CLOSURE REQUIREMENTS

Y/N/NA RMK #

11. Is a written closure/post-closure plan available for inspection at the facility? [3745-66-12]
12. Has the closure/post-closure plan been amended 60 days prior to any changes in facility design, or operation, or no later than 60 days after an unexpected event has occurred which has effected the closure plan? [3745-66-18(D)]
13. Has the closure/post-closure plan been submitted to the Director 180 days prior to beginning closure? [3745-66-18(E)]
14. Does the plan contain information required in 3745-68-10?
15. Is a closure cost estimate available?
16. Has closure begun?
17. Has the property owner attached a notation to the property deed or other instrument which will notify any potential purchaser that the property has been used to manage hazardous waste and future use of the property is restricted under 3745-66-17(C) as required in 3745-66-19?

Y \_\_\_\_\_

N/A \_\_\_\_\_

Y \_\_\_\_\_  
PLAN UNDER  
REVIEW BY OEPA

Y \_\_\_\_\_

N \_\_\_\_\_

N/A \_\_\_\_\_  
NOT CERTIFIED  
CLOSED

REMARKS - LANDFILL CLOSURE/POST-CLOSURE REQUIREMENTS

RCRA HAZARDOUS WASTE GENERATOR  
COMPLIANCE EVALUATION INSPECTION CHECKLIST

Facility: AMSTED INDUSTRIES / AMERICAN STEEL FOUNDRIES  
USEPA I.D.: OH D 981 909 481 HWFB No.: \_\_\_\_\_  
Street: 1001 EAST BROADWAY  
City: ALLIANCE State: OH Zip: 44601-0060  
County: STARK Telephone: \_\_\_\_\_  
Owner/Operator: AMSTED INDUSTRIES INC  
Street: 205 NORTH MICHIGAN AVE  
City: CHICAGO State: IL Zip: 60601  
Telephone: 216 823 6150 - ALLIANCE

Inspection Date: 11/26/91 Time: 08 - 30

Advance notice of inspection given? (yes) \_\_\_\_\_ (no) ✓  
If so, how far in advance? \_\_\_\_\_

	<u>Name</u>	<u>Agency/Title</u>	<u>Phone</u>
Inspectors:	<u>JOHN PALMER</u>	<u>OEPA</u>	<u>216 425 9171</u>
	<u>MARCY ZIKMANIS</u>	<u>✓</u>	<u>✓</u>
Facility Representative:	<u>TERRY BRADWAY</u>	<u>FACILITIES ENGINEER</u>	<u>216 823 6150 X 288</u>
	<u>WILLIAM HEESTAND</u>	<u>SAFETY &amp; ENVIRONMENTAL SUPER</u>	<u>X 206</u>
	<u>PAT BOYCE</u>	<u>SAFETY SUPER</u>	<u>✓</u>

STATUS

Cond. Exempt SQG \_\_\_\_\_ SQG \_\_\_\_\_ Large Quantity Generator ✓  
LDR Checklist Attached: (yes) ✓ (no) \_\_\_\_\_

ACTIVITIES

Containers <u>✓</u>	Used oil burner _____
Tanks _____	Hazardous waste fuel burner/blender _____
Wastepile _____	Incineration/Thermal treatment _____
Landfill _____	Land treatment _____
Surface Impoundment _____	Groundwater monitoring _____

Revised: 1/7/91

REMARKS - GENERAL INFORMATION

Include list of wastes being generated/managed at the site and a brief description of site activity and waste handling procedures:

FACILITY IS A LARGE FOUNDRY PRODUCING CAST  
STEEL PARTS, MOSTLY ~~FOR~~ FOR THE  
RAILROAD INDUSTRY. SEE PAGE 4  
FOR HAZWASTE DETAILS.

BASICLY: D006/D008 EAF BAGHOUSE DUST  
D001/D018/D039 PARTS WASHER SOLVENTS  
D005 WIRE WELD DUST  
D001 WASTE OILS

GENERATOR CLASSIFICATION (OAC 3745-52-34)

Does the facility:

1. Generate < 100 Kg (25-30 gallons) of hazardous waste in a calendar month?

(yes) \_\_\_\_\_ (no) \_\_\_\_\_

If so, the facility is classified as a Conditionally Exempt Small Quantity Generator, unless 3.b. applies. Please complete the Conditionally Exempt Small Quantity Generator Requirements checklist.

2. Generate between 100 and 1000 Kg of hazardous waste in a calendar month? (about 25 to under 300 gallons)

(yes) \_\_\_\_\_ (no) \_\_\_\_\_

If so, the facility is classified as a Small Quantity Generator, unless 3.b. applies. Please stop here and complete the Small Quantity Generator Requirements checklist.

3. a. Generate > 1000 Kg (~ 300 gallons) of hazardous waste in a calendar month?

OR;

- b. Generate > 1 Kg of acutely hazardous waste in a calendar month?

(yes) ✓ (no) \_\_\_\_\_

If so, the facility is classified as a Large Quantity Generator. Please complete the Large Quantity Generator Requirements checklist.

REMARKS - GENERATOR CLASSIFICATION

## WASTE MANAGEMENT ACTIVITIES SUMMARY

## OFF SITE MANAGEMENT

[illegible]



CONTINGENCY PLAN (OAC 3745-65-50 THROUGH 3745-65-56)

Y/N/NA RMK #

1. Does the o/o have a written Contingency Plan which contains the following? [3745-65-52 (A) (B) (C) (D) (E)]:
  - a. Actions to be taken by personnel in the event of an emergency incident? Y \_\_\_\_\_
  - b. Arrangements or agreements with local or state emergency authorities? Y \_\_\_\_\_
  - c. Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator? Y \_\_\_\_\_
  - d. A list of all emergency equipment including location, physical description and outline of capabilities? Y \_\_\_\_\_
  - e. If required due to the actual hazards associated with the waste handled, an evacuation plan for facility personnel? [3745-65-52 (F)]? Y \_\_\_\_\_
2. Is the Contingency Plan designed to minimize hazards to human health or the environment from fires, explosions or any unplanned release of hazardous waste or hazardous waste constituents to air, soil or surface water? [3745-65-51 (A)] Y \_\_\_\_\_
3. Is a copy of the Contingency Plan and any plan revisions maintained on-site and has it been submitted to all local and state emergency service authorities that might be required to participate in execution of the plan? [3745-65-53 (A) (B)] Y \_\_\_\_\_
4. Is the plan revised in response to rule changes, facility, equipment and personnel changes or failure of the plan? [3745-65-54] Y \_\_\_\_\_
5. Is an emergency coordinator who is familiar with all aspects of site operation and emergency procedures who has the authority to implement all aspects of the Contingency Plan designated at all times (on-site or on-call)? [3745-65-55] Y \_\_\_\_\_

Y/N/NA    RMK #

6.    If an emergency situation has occurred, has the emergency coordinator implemented all or part of the Contingency Plan and taken all of the actions and made all of the notifications necessary under 3745-65-56(A-J)?

N/A \_\_\_\_\_

REMARKS - CONTINGENCY PLAN REQUIREMENTS

PERSONNEL TRAINING (OAC 3745-65-16)

Y/N/NA RMK #

1. Does the generator provide a Personnel Training Program in compliance with 3745-65-16(A) (B) (C) including instruction in safe equipment operation and emergency procedures, and implementation of the contingency plan? [3745-52-34(A) (4)]
2. Does the generator provide Personnel Training to new employees within 6 months after the date of employment as required by 3745-65-16(B)? [3745-52-34(A) (4)]
3. Does the generator provide an annual refresher training course as required by 3745-65-16(B)? [3745-52-34(A) (4)]
4. Does the generator keep all the records required by 3745-65-16(D) (E) including; written job titles, job descriptions and documented employee training records? [3745-52-34(A) (4)]

Y \_\_\_\_\_

Y \_\_\_\_\_

Y \_\_\_\_\_

Y \_\_\_\_\_

REMARKS - PERSONNEL TRAINING REQUIREMENTS

OAC 3745-52 - LARGE QUANTITY GENERATOR REQUIREMENTS

WASTE EVALUATION (OAC 3745-52-11)

Y/N/NA RMK #

1. Have wastes generated at the facility been evaluated in compliance with the waste evaluation requirements of OAC rule 3745-52-11 (A) (B) and (C)?

Y \_\_\_\_\_

If not, specify those waste streams which the generator has failed to adequately evaluate:

2. Are any wastes generated at the facility identified by the generator as being excluded from regulation under Rule 3745-51-04?

N \_\_\_\_\_

If so, specify those waste streams identified by the generator as being excluded under 3745-51-04:

3. Is the facility generating any wastes which are identified as recyclable materials as defined in OAC 3745-51-06?

N \_\_\_\_\_

If so, please identify these waste streams below:

4. Is the generator recycling any materials on-site by:
- Using or reusing the material as an ingredient in an industrial process to make a product?
    - If so, is the material being reclaimed before it is used or reused?
  - Using the material as a substitute for commercial products?
  - Returning the material to the original process from which it was generated as a substitute for a raw material feedstock?
    - If so, is the material reclaimed before returning to the original process?

N  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
①

Please identify those materials that the generator is recycling as described in 4.a., 4.b. and/or 4.c. below:

① SOME EAF DUST, IF SPILLED, IS CHARGED BACK INTO THE FURNACES.

5. Has the generator identified any waste treatment activity as being excluded from regulation because of totally enclosed treatment or via operation of an elementary neutralization unit and/or wastewater treatment unit as described in Rule 3745-65-01?

N  
\_\_\_\_\_  
\_\_\_\_\_

If so, specify those waste treatment activities which the generator has identified as being excluded from regulation:

6. Are Land Disposal Restricted (LDR) wastes being generated? If so, complete the Land Disposal Restriction Checklist.

Y  
\_\_\_\_\_  
\_\_\_\_\_

**GENERATOR IDENTIFICATION NUMBER (OAC 3745-52-12)**

7. Prior to treating, storing, disposing, transporting or offering to transport hazardous waste, has the generator obtained a generator identification number from USEPA as required by 3745-52-12?

Y  
\_\_\_\_\_  
\_\_\_\_\_

**GENERATOR ANNUAL REPORT (OAC 3745-52-41)**

8. Has the generator filed annual reports to the Director on or before March 1st of each calendar year as required by 3745-52-41?

Y ②  
\_\_\_\_\_  
\_\_\_\_\_

② INSPECTED MAY, 1991 - SINCE LAST REPORT WAS DUE

HAZARDOUS WASTE IMPORT/EXPORT (OAC 3745-52-50 TO 3745-52-57  
AND OAC 3745-52-60)

Y/N/NA RMK #

9. Does the generator import or export hazardous waste?

If so, are the wastes handled in accordance with the  
requirements of 3745-52-50 through 3745-52-57 and  
3745-52-60?

Y         
Y       

REMARKS - HAZARDOUS WASTE IMPORT/EXPORT

PRE-TRANSPORT REQUIREMENTS (OAC 3745-52-30 TO 3745-52-33)

Y/N/NA RMK #

10. Does the generator meet the following pre-transport  
requirements prior to offering hazardous wastes for  
transport off-site:

- a. The waste material is packaged, labeled, and marked  
in accordance with the applicable DOT regulations  
[3745-52-30, 3745-52-31, and 3745-52-32]?
- b. Each container with a capacity of 110 gallons or less  
is affixed with a completed hazardous waste label as  
required by 3745-52-32?
- c. The generator meets the requirements for proper DOT  
placarding or offers the appropriate DOT placards to  
the initial transporter in compliance with 3745-52-33?

Y         
Y         
Y       

REMARKS - PRETRANSPORT REQUIREMENTS

GENERATOR CLOSURE REQUIREMENTS (3745-52-34)

Y/N/NA RMK #

1. Has the generator closed any < 90-day accumulation unit(s) since date of last inspection? N

If so, describe the unit(s) which the generator has closed:

2. If the generator has closed any < 90-day accumulation unit(s) as described in Question #1, was closure completed to meet the closure performance standard of 3745-66-11? [3745-52-34(A) (1)] N/A

Please provide a description of the type of documentation provided by the generator to confirm that closure was completed in accordance with the closure performance standard:

REMARKS - GENERATOR CLOSURE REQUIREMENTS

GENERATOR ACCUMULATION IN CONTAINERS AND TANKS  
(OAC 3745-52-34)

Y/N/NA RMK #

1. If the generator elects to accumulate hazardous waste on-site in containers or tanks for 90 days or less without a permit as provided under 3745-52-34, are the following requirements met:

- a. The containers or tanks are clearly marked with the words "Hazardous Waste"? [OAC 3745-52-34(A) (3)]
- b. The date that accumulation began is clearly marked on each container? [OAC 3745-52-34(A) (2)]

Y \_\_\_\_\_  
Y \_\_\_\_\_

In addition, OAC 3745-52-34(A) (1) also requires generators accumulating hazardous waste(s) in containers < 90 days to comply with the "Container Management" Rules of OAC 3745-66-70 to 3745-66-77. If the generator is accumulating hazardous waste(s) in containers, please complete Management of Containers checklist to document compliance with these requirements.

2. Is the generator accumulating hazardous waste(s) in tanks? N \_\_\_\_\_

If so, OAC 3745-52-34(A) (1) requires generators to comply with Rules 3745-66-90 to 3745-66-992 except Paragraph (c) of rule 3745-66-97 and rule 3745-66-991.

If the generator is accumulating hazardous waste(s) in tanks, complete the Storage and Treatment in Tanks checklist to document compliance with these requirements.

3. Has the generator accumulated hazardous wastes in excess of ninety (90) days? N ①

- a. If so, has the generator been granted an extension by the Director for accumulation in excess of (90) days? N/A \_\_\_\_\_

REMARKS - GENERATOR ACCUMULATION REQUIREMENTS

① NOT AT PRODUCTION FACILITY  
SINCE MAY, 1991



SATELLITE ACCUMULATION AREA REQUIREMENTS  
(OAC 3745-52-34(C))

Y/N/NA RMK #

1. Has the facility elected to accumulate hazardous waste at or near a point of generation which is under the control of the operator of the process generating the waste? (defined as satellite accumulation)

Y \_\_\_\_\_

If so, are the following requirements of OAC 3745-52-34(C) being met:

- a. Quantities of waste accumulated do not exceed 55 gallons at any time?  
b. Quantities of acutely hazardous waste accumulated do not exceed 1 quart at any one time?  
c. The generator has marked the containers with words "Hazardous Waste" or with other words identifying the contents of the container?

Y \_\_\_\_\_  
N/A \_\_\_\_\_  
Y \_\_\_\_\_

If the facility is maintaining satellite accumulation areas as identified in 1.a. and 1.b. above, OAC 3745-52-34(C) also requires that the container(s) in these areas be managed in compliance with the "Container Management" requirements of OAC 3745-66-71, 3745-66-72, 3745-66-73(A), 3745-66-76 and 3745-66-77. Please complete the Use and Management of Containers checklist to document compliance with these requirements.

2. Is the facility accumulating hazardous waste(s) in excess of the amounts listed in either 1.a or 1.b?

N ①

- a. If so, did the generator comply with 3745-52-34(A) within three (3) days? and;

Y ②

- b. Upon accumulating > 55-gallons of waste, did the generator mark the container holding the excess hazardous waste with the date the excess began accumulating?

Y \_\_\_\_\_

REMARKS - SATELLITE ACCUMULATION REQUIREMENTS

① NOT IN SATELLITE ACCUMULATION AREA  
② MANIFESTED OUT ON NEXT LOAD OF  
EAF DUST

USE AND MANAGEMENT OF CONTAINERS (OAC 3745-66-70 TO 3745-66-77)

Y/N/NA RMK #

1. Are hazardous wastes stored in containers which are:
  - a. Closed? [3745-66-73(A)] Y \_\_\_\_\_
  - b. In good condition? [3745-66-71] Y \_\_\_\_\_
  - c. Compatible with wastes stored in them? [3745-66-72] Y \_\_\_\_\_
2. Are containers stored closed except when it is necessary to add or remove wastes? [3745-66-73(A)] Y \_\_\_\_\_
3. Are hazardous waste containers stored, handled and opened in a manner which prevents container rupture or leakage? [3745-66-73(B)] Y \_\_\_\_\_
4. Is the area where containers are stored inspected for evidence of leaks or corrosion at least weekly? [3745-66-74] Y \_\_\_\_\_
5. Is the facility recording inspections described in Question #4 in an inspection log or inspection summary as required by OAC 3745-66-74(B) which contains the following information:
  - a. Date and time of inspections? N ①
  - b. Name of inspector? Y \_\_\_\_\_
  - c. Notation of observations made during the inspection? Y \_\_\_\_\_
  - d. The date and nature of any repairs or other remedial action? Y \_\_\_\_\_
6. Are ignitable and/or reactive hazardous waste(s) being managed at the facility? If so,
  - a. Are containers holding ignitable or reactive waste located at least 50 feet (15 meters) from the facility's property line? [3745-66-76] Y \_\_\_\_\_
  - b. Are containers holding hazardous wastes stored separately from other materials which may interact with the waste in a hazardous manner? [3745-66-77(C)] Y \_\_\_\_\_

REMARKS - CONTAINER MANAGEMENT REQUIREMENTS

① NO TIME ON SHEET FOR INSPECTION

11/27/91

N. Zikmanis

## WASTE MATERIAL INSPECTION CHECKLIST

Date: NOVEMBER 22, 1991Inspector: W. L. H. J.

	Satellite Poly Packs			Flammable Storage Bld.
	Power house	B&E #1	Garage	
1. Are all drums labelled properly?	Y	Y	Y	Y
2. Are all drums closed and capped?	Y	Y	Y	Y
3. Are there any damaged or leaking drums?	N	N	N	N
4. Is there any spilled material in the bottom of the poly packs?	N	N	N	NA
5. Is there a funnel available for each drum of material contained in the poly pack?	Y	Y	Y	Y
6. Is the appropriate fire extinguisher(s) and/or sprinkler system for each respective area as identified in the contingency plan charged and ready for use?	Y	Y	Y	Y
7. Is the appropriate spill containment material available and ready for use?	Y	Y	Y	Y
8. Is non-hazardous material stored separate from hazardous material?	Y	Y	Y	Y
9. Is the communication equipment (radios and telephone) functioning properly?	Y	Y	Y	Y
10. Is there adequate aisle space between drums?	NA	NA	NA	Y
11. Is the operating structure in good condition?	Y	Y	Y	Y
12. Are the security devices intact and in good working order?	Y	Y	Y	Y
13. Is the monitoring equipment functioning properly?	Y	Y	Y	Y

REMARKS:

Y= Yes

N= No

PREPAREDNESS AND PREVENTION (OAC 3745-65-30 TO 3745-65-37)

Y/N/NA RMK #

1. Is the facility operated to minimize the possibility of fire, explosion, or non-planned release of hazardous waste? [3745-65-31]
2. Has there been a fire, explosion or non-planned release of waste at the facility since date of last inspection?
  - a. If yes, was the contingency plan implemented? [3745-65-51(B)]
3. If required due to actual hazards associated with the waste, does the facility have the following equipment: [3745-65-32(A) (B) (C) (D)]
  - a. Internal alarm system?
  - b. Access to telephone, radio or other device for summoning emergency assistance?
  - c. Portable fire control equipment, spill control and decontamination equipment?
  - d. Water of adequate volume and pressure via hoses, sprinkler, foamers or sprayers?
4. Is all required spill control and decontamination equipment, fire and communications equipment tested on a weekly basis and maintained as necessary? [3745-65-33]
  - a. Does the facility keep an equipment testing log required by 3745-65-33(B), including date and time of test, observations made, and date and nature of any repairs?
5. If required due to the actual hazards associated with the waste, do personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled? [3745-65-34]
6. If required due to the actual hazards associated with the waste, is adequate aisle space maintained to allow unobstructed movement of emergency or spill control equipment? [3745-65-35]
7. If required due to the actual hazards associated with the waste, has the facility attempted to make appropriate arrangements with local authorities to familiarize them with possible hazards and facility layout? [3745-65-37(A)]

Y \_\_\_\_\_

N \_\_\_\_\_

N/A \_\_\_\_\_

Y \_\_\_\_\_

Y \_\_\_\_\_

Y \_\_\_\_\_

Y \_\_\_\_\_

Y \_\_\_\_\_

N \_\_\_\_\_

NO TIME ON  
INSPECTION  
SHEETS

Y \_\_\_\_\_

Y \_\_\_\_\_

Y \_\_\_\_\_

Y/N/NA RMK #

8. Where state and local emergency service authorities have declined to enter into any proposed special arrangements or agreements, has the refusal been documented?  
[OAC 3745-65-37(B)]

Y \_\_\_\_\_

REMARKS - PREPAREDNESS AND PREVENTION REQUIREMENTS

Date: NOVEMBER 23, 1991

Inspector: W. Hestand

	Yes	No	NA
1. Does the main dust collector hopper have any holes or dust leakage evident?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Does the screw conveyor leak or have any holes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Is dust leakage evident from any other part of the collector?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Is the discharge hose in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Is the ground under the collector clean and free of freshly spilled furnace dust?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Is the transport trailer in good condition and without physical holes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Is the plastic liner in place?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Is the cover tarp secured in place over the trailer after each fill cycle?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the cover tarp in place and free of holes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Are the hazard material signs in place on the sides of the trailer?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Are the dates the trailer was placed under the collector correct on the signs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Have any minor spills been cleaned-up since last inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13. Has the communication equipment been checked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Are all the security devices functioning properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS:

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rec. from W. Hestand - ASF

11/27/91

A. Zilmanis

MANIFEST REQUIREMENTS (OAC 3745-52-20 TO 3745-52-23)

Y/N/NA RMK #

1. Does the generator meet the following requirements with respect to the preparation, use and retention of the hazardous waste manifest:
  - a. All hazardous wastes shipped off-site have been accompanied by a completed manifest, USEPA form 8700-22 in compliance with 3745-52-20 (A)? Y \_\_\_\_\_
  - b. The manifest contains all information required by 3745-52-20 and the minimum number of copies required by 3745-52-22? Y \_\_\_\_\_
  - c. The generator has designated at least one permitted disposal facility and has/will designate an alternate facility or instructions to return waste in compliance with 3745-52-20 (C) (D) (E)? Y \_\_\_\_\_
  - d. Prepared manifests have been signed by the generator and initial transporter in compliance with 3745-52-23 (A) (1) (2)? Y \_\_\_\_\_
2. Has the generator received a return copy of each completed manifest within thirty-five (35) days of the date the waste was accepted by the initial transporter? Y \_\_\_\_\_
  - a. If not, has the generator complied with the Manifest Exception reporting requirements in 3745-52-42? Y \_\_\_\_\_
3. Are signed copies of all hazardous waste manifests and any documentation required for Exception Reports retained for at least 3 years as required by 3745-52-40? Y \_\_\_\_\_

REMARKS - MANIFEST REQUIREMENTS

*Safety Klean Parts Washers - D001/D039/D018*

*EAF Dust - D006/D008 - Envirite*

*Waste Solid - D005, D006, D008 - Envirite  
Smoke eater dust*

*\* Any waste which has no analysis (ie waste oil) is listed as a D001 and sent to Safety Klean.*

# TOXICITY CHARACTERISTIC (TC) RULE REQUIREMENTS

## WASTE EVALUATION (GENERATOR REQUIREMENT)

Y/N N/A RMK#

1. Has the generator evaluated all wastes to determine if they exhibit any of the toxicity characteristics as defined in 40 CFR 262.24? [40 CFR 262.11]

Y — —

(a) Did the generator use knowledge of the process to determine if wastes exhibit any of the toxicity (TC) characteristics? OR:

Y — —

(b) Did the generator obtain a chemical analysis of the wastes to determine if the wastes demonstrate any of the toxicity (TC) characteristics?

Y — — *attached*

NOTE: If the generator has obtained a chemical TC analysis of the wastes, please attach a copy of the analytical results to this checklist.

2. Please identify which of the following TC wastes are being managed at the facility:

*D006/D008 - Eff  
D005 - Smoke Eater  
Rust*

### TC METAL WASTES

<u>  </u> D004 (Arsenic)	<u>  </u> D007 (Chromium)	<u>  </u> D010 (Selenium)
<u>✓</u> D005 (Barium)	<u>✓</u> D008 (Lead)	<u>  </u> D011 (Silver)
<u>✓</u> D006 (Cadmium)	<u>  </u> D009 (Mercury)	

### TC PESTICIDE WASTES

<u>  </u> D012 (Endrin)	<u>  </u> D014 (Methoxychlor)	<u>  </u> D016 (2,4-D)
<u>  </u> D013 (Lindane)	<u>  </u> D015 (Toxaphene)	<u>  </u> D017 (2,4,5-TP)

### TC ORGANIC WASTES - *Safety Kleen Parts Washer*

<u>✓</u> D018 (Benzene)	<u>  </u> D031 (Heptachlor)
<u>  </u> D019 (Carbon tetrachloride)	<u>  </u> D032 (Hexachlorobenzene)
<u>  </u> D020 (Chlordane)	<u>  </u> D033 (Hexachlorobutadiene)
<u>  </u> D021 (Chlorobenzene)	<u>  </u> D034 (Hexachloroethane)
<u>  </u> D022 (Chloroform)	<u>  </u> D035 (Methyl ethyl ketone)
<u>  </u> D023 (o-Cresol)	<u>  </u> D036 (Nitrobenzene)
<u>  </u> D024 (m-Cresol)	<u>  </u> D037 (Pentachlorophenol)
<u>  </u> D025 (p-Cresol)	<u>  </u> D038 (Pyridine)
<u>  </u> D026 (Cresol)	<u>✓</u> D039 (Tetrachloroethylene)
<u>  </u> D027 (1,4-Dichlorobenzene)	<u>  </u> D040 (Trichloroethylene)
<u>  </u> D028 (1,2-Dichloroethane)	<u>  </u> D041 (2,4,5-Trichlorophenol)
<u>  </u> D030 (2,4-Dinitrotoluene)	<u>  </u> D042 (2,4,6-Trichlorophenol)
	<u>  </u> D043 (Vinyl chloride)



Please identify below, how the facility is managing TC hazardous wastes:

GENERATOR ACCUMULATION ( <u>&lt;</u> 90 DAYS)	STORAGE ( <u>&gt;</u> 90 DAYS)	ON-SITE TREATMENT	ON-SITE DISPOSAL
<input checked="" type="checkbox"/> Container	<input type="checkbox"/> Container	<input type="checkbox"/> Tank	<input type="checkbox"/> Injection Well
<input type="checkbox"/> Tank	<input type="checkbox"/> Tank	<input type="checkbox"/> Incinerator	<input type="checkbox"/> Surface
	<input type="checkbox"/> Waste Pile	<input type="checkbox"/> Other	<input type="checkbox"/> Impoundment
	<input type="checkbox"/> Surface		<input type="checkbox"/> Land Application
	<input type="checkbox"/> Impoundment		

#### PART A APPLICATION REQUIREMENTS

Y/N N/A RMK#

4. For TSD facilities: Does the company have available, a copy of its Part A permit application which has been revised to reflect TC waste codes?

N/A \_\_\_\_\_

If so, please obtain a copy and attach to this checklist.

5. If the company does not have a revised Part A available, does the facility representative indicate that a revised Part A application has been filed with U.S. EPA?

N/A \_\_\_\_\_

#### RECORDKEEPING REQUIREMENTS

6. Is the owner/operator in compliance with the 40 CFR Part 264 and Part 265 recordkeeping requirements applicable to the management of TC waste?

Y \_\_\_\_\_

If not, please identify below the specific 40 CFR violations or potential 40 CFR violations occurring:

STRUCTURAL/OPERATING REQUIREMENTS

Y/N N/A RMK#

7. Is (are) the unit(s) used to manage TC hazardous waste in compliance with the structural and operating requirements of 40 CFR Part 264 and Part 265?

Y

If not, please identify below the specific 40 CFR violations or potential 40 CFR violations occurring:

OPERATION/MAINTENANCE REQUIREMENTS

Y/N N/A RMK#

8. Is the owner/operator complying with 40 CFR Part 264 and Part 265 operation and maintenance requirements to ensure the proper management of TC hazardous wastes?

Y

If not, please identify below the specific 40 CFR violations or potential 40 CFR violations occurring:

OAC CHAPTER 3745-59 (40 CFR PART 268) - LDR GENERAL REQUIREMENTS

CASE-BY-CASE EXTENSIONS

Y/N/NA RMK#

1. Has the entity received an extension for compliance with land disposal restrictions from US EPA in accordance with O.A.C. Rule 3745-59-05 (40 CFR 268.5)? If yes,   N

(a) List the waste(s) affected:

- (b) Has such an extension been recognized by the Director of Ohio EPA? [O.A.C. Rule 3745-59-05(C)]   N

(c) When does the extension expire? \_\_\_\_\_

NOTE: A case-by-case extension can be granted for up to one year. The extension is renewable once (by US EPA) for an additional year.

VARIANCE FROM A TREATMENT STANDARD

2. Has the entity been granted a variance from an LDR treatment standard by US EPA as allowed by O.A.C. Rule 3745-59-44 (40 CFR 268.44)? If yes,   N

(a) List the waste(s) affected:

- (b) Has the petition been recognized by the Director of Ohio EPA? [O.A.C. Rule 3745-59-44(C)]   N

NOTE: Until the extension or variance identified in Questions 1 or 2 has been recognized by the Director of the Ohio EPA, the entity must continue to manage the waste in compliance with the LDR requirements. [See O.A.C. Rules 3745-59-05(C) and 3745-59-44(C)]

NO MIGRATION PETITION

Y/N/NA RMK#

3. Has the entity petitioned US EPA for a variance to allow for continued land disposal of untreated LDR wastes based upon a demonstration that there will be no migration from the disposal unit as specified in O.A.C. Rule 3745-59-06 (40 CFR 268.6)?

N \_\_\_\_\_

If yes,

- (a) List the waste(s) affected:

- (b) Has the entity's "no migration" demonstration been approved by US EPA?

N \_\_\_\_\_

NOTE: Until receiving approval of the petition by US EPA, the entity must comply with all LDR requirements applicable to the petitioned waste(s). No approval or recognition of the petition by the Director of the Ohio EPA is required. [O.A.C. Rule 3745-59-06; 40 CFR 268.6]

PROHIBITION AGAINST DILUTION

4. In compliance with O.A.C. Rule 3745-59-03 (40 CFR 268.3), does the entity prohibit the dilution of a restricted waste or treatment residue from a restricted waste:

- (a) As a substitute for adequate treatment to achieve compliance with LDR treatment standards?
- (b) To circumvent the effective date of a prohibition (e.g. to dilute a "non-wastewater" waste to a "wastewater" to avoid complying with the "non-wastewater" treatment standard)?
- (c) To otherwise avoid a prohibition in O.A.C. Rules 3745-59-30 through 3745-59-33? (40 CFR 268.30 through 268.33)
- (d) To otherwise avoid a prohibition imposed by Section 3004 of RCRA?

Y \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
Y \_\_\_\_\_

NOTE: Dilution of wastes is permissible under the following conditions:

- i. The entity dilutes a characteristic only hazardous waste in a wastewater treatment system which treats wastes subsequently discharged pursuant to a permit issued under section 402 of Clean Water Act or which treats wastes for purposes of pretreatment under section 307 of the Clean Water Act; and,
- ii. No other method of treatment has been specified as the treatment standard for the waste. (See 40 CFR 268.3)

LDR - GENERATOR REQUIREMENTS

NOTE: The following requirements apply only to large quantity generators and small quantity generators. Conditionally exempt small quantity generators are exempt from land disposal restriction requirements as referenced in O.A.C. Rules 3745-59-01(C)(3) (40 CFR 261.8(e)(1)) and 3745-51-05(B) (40 CFR 261.5(b)).

EVALUATION OF WASTES/DETERMINING APPROPRIATE TREATMENT STANDARDS

Y/N/NA RMK#

1. Has the generator adequately evaluated all wastes generated to determine if the wastes are restricted from land disposal under O.A.C. Chapter 3745-59 (40 CFR Part 268)? [O.A.C. Rule 3745-59-07(A); 40 CFR 268.7(a)]  

Y      \_\_\_\_\_
- (a) For determinations based solely on knowledge of the waste: Is supporting data used to make this determination being retained on-site? [O.A.C. Rule 3745-59-07(A)(5); 40 CFR 268.7(a)(5)]  

N      \*
  - (b) For determinations based upon analytical testing of the waste: Is a copy of waste analysis data being retained on-site? [O.A.C. Rule 3745-59-07(A)(5); 40 CFR 268.7(a)(5)]  

Y      attached
2. Has the generator determined the correct "treatability group" for each waste restricted from land disposal (e.g. wastewater, non-wastewater, high arsenic, low arsenic, high zinc, low zinc, etc.)?  

Y      \_\_\_\_\_
3. Has the generator determined if restricted wastes meet or exceed treatment standards? [O.A.C. Rule 3745-59-07(A); 40 CFR 268.7(a)]  

Y      \_\_\_\_\_

REMARKS

*\* Any Waste Oil with no analyticals are sent to  
Safety Kleen as D001.*

4. Does the generator generate waste mixtures that are subject to two or more different treatment standards? If so, N

- (a) For mixed waste streams containing two or more concentration based treatment standards: Has the generator applied the more stringent treatment standard as the treatment standard for the mixture? [O.A.C. Rules 3745-59-41(B) and 3745-59-43(B); 40 CFR 268.41(b) and 268.43(b)] N/A

5. Does the facility generate any listed waste(s) which are restricted from land disposal? If so, N

- (a) Do such wastes also exhibit hazardous waste characteristics as identified in 40 CFR 262.11? +
- (b) For listed wastes which also exhibit characteristic(s), does the generator also identify the appropriate treatment standard for the constituent(s) which cause the waste to exhibit the characteristic(s)? [40 CFR 268.9] ↓

#### TREATMENT OF CHARACTERISTIC HAZARDOUS WASTE

6. Does the generator treat any characteristic hazardous waste(s) in a RCRA-exempt unit to render such wastes non-hazardous? If so, N

- (a) Are treated waste(s) sent to a licensed solid waste disposal facility? If so, N/A

i. With each shipment of waste, does the generator submit a notification and certification to the Regional Administrator which contains the following information:

- a. Name and address of the solid waste facility receiving the waste? [40 CFR 268.9(d)(1)(i)] +
- b. A description of the waste as initially generated, including EPA hazardous waste numbers and the treatability group? [40 CFR 268.9(d)(1)(ii)] +
- c. The treatment standards applicable at the initial point of generation? [40 CFR 268.9(d)(1)(iii)] +

ii. Is the certification signed by an authorized representative and does it contain the language in 40 CFR 268.7(b)(5)(i)? [40 CFR 268.9(d)(2)] ↓

NOTE: An example of a RCRA-exempt unit would include an elementary neutralization unit or a wastewater treatment unit as defined by O.A.C. Rule 3745-50-10. [See O.A.C. Rule 3745-65-01]



## NOTIFICATION/CERTIFICATION

Y/N/NA RMK#

7. For wastes that do not meet treatment standards: Does the generator notify the treatment or storage facility receiving the wastes, in writing, that wastes being received do not meet treatment standards? [O.A.C. Rule 3745-59-07(A) (1); 40 CFR 268.7(a) (1)]
- (a) Is such notification provided with each shipment of waste? [O.A.C. Rule 3745-59-07(A) (1); 40 CFR 268.7(a) (1)]
- (b) Does the notification contain the following information:
- i. EPA hazardous waste number? [O.A.C. Rule 3745-59-07(A) (1) (a); 40 CFR 268.7(a) (1) (i)]
  - ii. Appropriate treatment standard for each waste? [O.A.C. Rule 3745-59-07(A) (1) (b); 40 CFR 268.7(a) (1) (ii)]
  - iii. The manifest number associated with the shipment of waste? [O.A.C. Rule 3745-59-07(A) (1) (c); 40 CFR 268.7(a) (1) (iii)]
  - iv. Waste analysis data, where available? [O.A.C. Rule 3745-59-07(A) (1) (d); 40 CFR 268.7(a) (1) (iv)]
8. For wastes that meet treatment standards: Does the generator submit a written notice and certification to the treatment, storage or disposal facility receiving the waste stating that the wastes being received meet applicable treatment standards? [O.A.C. Rule 3745-59-07(A) (2); 40 CFR 268.7(a) (2)]
- If so, does the notice include the following information:
- (a) EPA hazardous waste number? [O.A.C. Rule 3745-59-07(A) (2) (a) (i); 40 CFR 268.7(a) (2) (i) (A)]
  - (b) The corresponding treatment standards and applicable prohibitions for the waste? [O.A.C. Rule 3745-59-07(A) (2) (a) (ii); 40 CFR 268.7(a) (2) (i) (B)]
  - (c) The manifest number associated with the shipment of waste? [O.A.C. Rule 3745-59-07(A) (2) (a) (iii); 40 CFR 268.7(a) (2) (i) (C)]
  - (d) Waste analysis data, where available? [O.A.C. Rule 3745-59-07(A) (2) (a) (iv); 40 CFR 268.7(a) (2) (i) (D)]
  - (e) Is the certification signed by the generator or an authorized representative? [O.A.C. Rule 3745-59-07(A) (2) (b); 40 CFR 268.7(a) (2) (ii)]



9. For wastes subject to a case-by-case extension, an exemption or a variance: Does the generator provide a written notice to the facility receiving the waste that the waste is not prohibited from land disposal? [O.A.C. Rule 3745-59-07(A)(3); 40 CFR 268.7(a)(3)]

N \_\_\_\_\_

If so, does the notice contain the following information:

- (a) EPA hazardous waste number? [O.A.C. Rule 3745-59-07(A)(3)(a); 40 CFR 268.7(a)(3)(i)]
- (b) The corresponding treatment standard and applicable prohibitions? [O.A.C. Rule 3745-59-07(A)(3)(b); 40 CFR 268.7(a)(3)(ii)]
- (c) The manifest number associated with the shipment of waste? [O.A.C. 3745-59-07(A)(3)(c); 40 CFR 268.7(a)(3)(iii)]
- (d) Waste analysis data, where available? [O.A.C. Rule 3745-59-07(A)(3)(d); 40 CFR 268.7(a)(3)(iv)]
- (e) The date the waste is subject to the prohibitions? [O.A.C. Rule 3745-59-07(A)(3)(e); 40 CFR 268.7(a)(3)(v)]

N/A \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

10. Does the generator retain on-site a copy of all notices, certifications, demonstrations and waste analysis data for at least five years? [3745-59-07(A)(6); 40 CFR 268.7(a)(6)]

REMARKS

BASED ON INFORMATION FOUND IN THIS INSPECTION, THE  
FACILITY IN THE PAST HAD TRANSPORTED DOOE/POOB  
WASTE. FACILITY MAINTAINS THAT IT WAS NOT  
HAZARDOUS WASTE.  
OAC 3745-53 HAZARDOUS WASTE TRANSPORTER REQUIREMENTS

REGISTRATION AND IDENTIFICATION REQUIREMENTS  
(OAC 3745-53-11)

Y/N/NA RMK #

1. Has the entity registered with the Public Utilities Commission of Ohio as a transporter of hazardous waste? [3745-53-11] N
- What is the entity's PUCO Number? \_\_\_\_\_
2. Has the transporter received a U.S. EPA ID number prior to transporting hazardous waste? [3745-53-11(D)] Y
3. Have all wastes accepted for transport by the transporter been accompanied by a manifest prepared by the generator in accordance with 3745-52? [3745-53-20(C)] N
4. Has the transporter signed the manifest as required by 3745-53-20 and carried the manifest with the waste shipment as required by 3745-53-20(C)? N
5. Upon delivery of the hazardous waste to the next transporter or the designated facility, has the transporter signed the manifest as required by 3745-53-20(D) (1) and retained a signed copy for at least 3 years? [3745-53-22(A)] N
6. Has the transporter delivered the entire quantity of waste accepted from the generator in accordance with manifest instructions?  
a. In cases where this was not possible, has the transporter contacted the generator for further instructions and revised the manifest accordingly? [3745-53-21(A) (B)] N/A
7. If hazardous waste has been delivered to rail or water transporters, has the original transporter complied with the manifest handling requirements of 3745-53-20(E) (F)? N/A
8. If hazardous waste has been shipped out of the country, has the transporter retained signed copies of the manifest for at least 3 years indicating that the waste left the U.S.A.? [3745-53-22(D)] N/A

9. Has the transporter ever had a discharge of hazardous waste during the time that the waste was under his control? If so,

UNKNOWN

a. Was immediate action taken? [3745-53-30(A)]

b. Were all of the notifications made as required by 3745-53-30(C)?

c. Was the discharge cleaned up as required by 3745-53-30?

10. Does the transporter store hazardous wastes temporarily while wastes are in transit? If so, are the following requirements met: [3745-53-12]

N

a. Are wastes stored for only 10 days or less?

N/A

b. Do wastes remain properly DOT packaged during storage?

NOTE: TEMPORARY STORAGE IN STATIONARY TANKS IS NOT PERMITTED UNDER TRANSFER FACILITY REQUIREMENTS AND SUCH STORAGE REQUIRES A RCRA PERMIT AND IS SUBJECT TO INTERIM STATUS REQUIREMENTS FOR STORAGE FACILITIES. ANY TYPE OF STORAGE BY THE TRANSPORTER WHICH IS NOT SPECIFICALLY AUTHORIZED UNDER OAC 3745-53-12 (263.12), TRANSFER FACILITY REQUIREMENTS, IS SUBJECT TO FULL RCRA REGULATION.

11. Does the transporter import hazardous waste to the United States?

N

12. Does the transporter mix hazardous wastes of different US DOT descriptions by placing them into a single container?

N

NOTE: A TRANSPORTER THAT IMPORTS HAZARDOUS WASTES OR MIXES WASTES AS DEFINED IN 3745-53-10(C) BECOMES A GENERATOR AND IS SUBJECT TO THE REQUIREMENTS OF 3745-52.

13. Does the transporter receive SQG wastes for transport pursuant to a reclamation agreement?

N

If so, was the following information recorded in a log or shipping paper carried with the shipment as required by 3745-53-20(H):

a. Name, address and USEPA ID # of SQG?

N/A

b. Quantity of waste?

c. DOT required shipping information?

d. Date waste accepted?

Y/N/NA RMK #

14. If the transporter receives SQG wastes for transport as described in Question 13, are records related to the shipments maintained for at least 3 years following expiration of the reclamation agreement?  
[OAC 3745-53-20 (H) (4)]

N/A \_\_\_\_\_

REMARKS - TRANSPORTER REQUIREMENTS

# RCRA INTERIM STATUS INSPECTION FORM

Facility Name: AMERICAN STEEL FOUNDRIES  
 Address: LAKE PARK BLVD & EDWINTON  
SEBRING TWP.  
 County: MAHONING

Date of Inspection July 3/5, 1990

HWFB #: \_\_\_\_\_

USEPA ID #: OH D 617-497-587

Facility Phone #: (216) 823-6150

Kat  
Produce  
Facility

Facility Contact: Bill HUBSTAND, Safety & ENV. Supervisor  
Chuck Rind, Manager of Quality &

Facility Contact Phone #: \_\_\_\_\_

Safety Equipment #: \_\_\_\_\_

Inspector(s) Name(s): Ahmed Mustafa, OH D EPA  
Chris CODER, Ohio EPA

ENV. Affairs & Terry BRADWAY, Facili.  
ENG.

STATUS  
 Cond. Ex. SQG \_\_\_ SQG \_\_\_ Generator \_\_\_ Transporter \_\_\_ Treatment \_\_\_ Storage \_\_\_ Disposal X

ACTIVITIES  
 Containers \_\_\_ Tanks \_\_\_ Surface Impoundments \_\_\_ Incineration/Thermal treatment \_\_\_  
 Waste pile \_\_\_ Land treatment \_\_\_ Landfill X Groundwater monitoring X  
 Used oil burner \_\_\_ Hazardous waste fuel burner/blender \_\_\_

- Does the facility produce "discarded materials" as defined in 3745-51-02(A)? DISCARDED Materials Generated at
- Are they : Production Facility (OH D 981909418)
  - Abandoned (disposed; incinerated; accumulated, stored, or treated prior to disposal)? Y
  - Recycled?
  - Inherently waste-like? (F020, F021, F022, F023, F026, F028)?
- If recycled or accumulated, treated or stored before recycling, is the waste:
  - Used in a manner constituting disposal?
  - Burned for energy recovery?
  - Reclaimed? (Refer to Table 1 of 3745-51-02)
  - Accumulated speculatively?
- Is the material recycled by being:
  - Used or reused as an ingredient in an industrial process to make a product without prior reclamation?
  - Used as an effective substitute for commercial products?
  - Returned to the original process from which it was generated without prior reclamation as a substitute for a raw material feedstock?

Y/N/NA REMARK #

N \_\_\_\_\_  
Y \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

	<u>Y/N/NA</u>	<u>REMARKS</u>
5. Are Land Disposal Restricted (LDR) wastes generated? If so, complete appropriate LDR checklist.	<u>N</u>	<u>      </u>
6. Has the facility submitted a Part A application to Ohio EPA in accordance with OAC 3745-50-40?	<u>Y</u>	<u>      </u>
7. If yes, is it complete and accurate and does it contain all information specified in OAC 3745-50-41, -42, -43?	<u>N</u>	<u>*</u>
8. If not accurate, has a Permit Change Request (PCR) been submitted in accordance with 3745-50-51? If yes, what date was the PCR submitted.	<u>NA</u>	<u>      </u>
9. Is the facility operating in compliance with the terms and conditions of its HWFB permit?	<u>N</u>	<u>      </u>
10. Has the facility submitted a Part B?	<u>N</u>	<u>      </u>
11. Was advance notice of the inspection given? If so, how far in advance?	<u>Y</u>	<u>15 HOURS</u>

\* According To June 12, 1989 Inspection :

ASF ~~WASTE~~ PART "A" ~~WAS~~ SUBMITTED IN NOV. 1980  
 FOR <sup>LANDFILL</sup> DISPOSAL OF DOOB WASTE.

IN JUNE 1982, ASF REQUESTED USEPA WITHDRAW

PART "A" APPLICATION BASED ON THEIR TESTING OF  
 WASTE STREAM. USEPA ACKNOWLEDGES REQUEST IN  
 APRIL 1983 BASED ON INFORMATION SUBMITTED AT THAT  
 TIME.

- 2 -

SUBSEQUENT SAMPLING BY USEPA CONFIRMED  
 DISPOSAL OF HAZARDOUS WASTE AT THIS FACILITY.

REMARKS. GENERAL INFORMATION.

Include list of wastes being generated/managed at the site and a brief description of site activity and waste handling.

3745-65-et seq. GENERAL FACILITY STANDARDS (40 CFR Part 265, SUBPART B)

		Y/N/NA	REMARK #
1.	Does the owner/operator (o/o) have a detailed chemical and physical analysis of the waste material containing all of the information which must be known to properly treat or store the waste as required by 3745-65-13(A)(1) (265.13(a))?	<u>Y</u>	_____
2.	Does o/o have a written waste analysis plan which describes analytical parameters, test methods, sampling methods, testing frequency and responses to any process changes that may affect the character of the waste. [3745-65-13(B)] (265.13(b))	<u>N</u>	_____
3.	a. Would physical contact with the waste structures or equipment injure unknowing/unauthorized person or livestock entering the facility? [3745-65-14(A)(1)] (265.14(a)(1))	<u>Y</u>	_____
	b. Would disturbance of the waste cause a violation of the hazardous waste regulations? [3745-65-14(A)(2)] (265.14(a)(2))	<u>Y</u>	_____
IF BOTH 3A AND 3B ARE NO, MARK QUESTIONS 4 AND 5 NOT APPLICABLE.			
4.	Does the facility have -	<u>N</u>	_____
	a. A 24-hour surveillance system, or		
	b. An artificial or natural barrier <u>and</u> a means to control entry at all times [3745-65-14(B)(2)(a and b)] (265.14(b)(2))	<u>Y</u>	_____
5.	Does the facility have a sign "Danger-Unauthorized Personnel Keep Out" at each entrance to the active portion of the facility and at other locations as necessary. [3745-65-14(C)] (265.14(c))	<u>Y</u>	_____
6.	a. Has the o/o developed and followed a comprehensive, written inspection plan and documented the inspections, malfunctions and any remedial actions taken in an operating record log which is kept for at least three years. [3745-65-15] (265.15)	<u>N</u>	_____



Y/N/NA REMARK #

- b. Are areas subject to spills (i.e., loading and unloading areas, etc.) inspection daily when in use and according to other applicable regulations when not in use. [3745-65-16(B)(4)] (265.15(b)(4))
7. Has the o/o provided a Personnel Training Program in compliance with 3745-65-16(A)(B)(C) including instruction in safe equipment operation and emergency response procedures, training new employees within 6 months and providing an annual training program refresher course? (265.16(a)(b)(c))
8. Does o/o keep all records required by 3745-65-16(D)(E) including written job titles, job descriptions and documented employee training records? (265.16(d)(e))
9. If Ignitable, Reactive or incompatible wastes are handled, does the facility meet the following requirements? [3745-65-17] (265.17)
- a. Protection from sources of ignition.
  - b. Physical separation of incompatible waste materials.
  - c. "No Smoking" or "No Open Flames" signs near areas where Ignitable or Reactive wastes are handled.
  - d. Comingling of waste materials is done in a controlled, safe manner as prescribed by 3745-65-17(B) (265.17(b))

N \_\_\_\_\_

N \_\_\_\_\_

N \_\_\_\_\_

N/A  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

40 CFR 3745-65 PREPAREDNESS AND PREVENTION (40 CFR PART 265 SUBPART C)

		<u>Y/N/NA</u>	<u>REMARK #</u>
1.	Is the facility operated to minimize the possibility of fire, explosion, or non-planned release of hazardous waste? [3745-65-31] (265.31)	<u>N</u>	_____
2.	Has there been a fire, explosion or <u>non-planned</u> release of waste at the facility? a. If yes, has the contingency plan been implemented?	<u>N</u>	_____
3.	If required due to actual hazards associated with the waste, does the facility have the following equipment: [3745-65-32(A)(B)(C)(D)] (265.32)	<u>NA</u>	_____
	a. Internal alarm system?	<u>Y</u>	<u>*</u>
	b. Access to telephone, radio or other device for summoning emergency assistance?	<u>NA</u>	_____
	c. Portable fire control equipment?	<u>NA</u>	_____
	d. Water of adequate volume and pressure via hoses, sprinkler, foamers or sprayers?	<u>NA</u>	_____
4.	Is all required spill control and decontamination equipment, fire and communications equipment tested and maintained as necessary? [3745-65-33] (265.33)	<u>N</u>	_____
5.	If required due to the actual hazards associated with the waste, do personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled? [3745-65-34] (265.34)	<u>Y</u>	<u>Radios</u>
6.	If required due to the actual hazards associated with the waste, is adequate aisle space to allow unobstructed movement of emergency or spill control equipment maintained? [3745-65-35] (265.35)	<u>NA</u>	_____
7.	If required due to the actual hazards associated with the waste, has the facility attempted to make appropriate arrangements with local authorities to familiarize them with the possible hazards and the facility layout? [3745-65-37(A)] (265.37(a))	<u>NA</u>	_____

\* Radios in Trucks.

Y/N/NA REMARK #

8. Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements, has the refusal been documented. [3745-65-37(B)] (265.37(b))

NA \_\_\_\_\_

- 1.

- 8.

- b.

- C. 

- d.

- e.

- 2.

- 3.

- 4.

- 5.

\* NO CONTINGENCY PLAN & NO EMERGENCY COORDINATOR  
FOR THIS SITE.

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH ON-SITE AND OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

1. Does the o/o maintain a written operating record at the facility as required by 3745-65-73(A) (265.73) which contains the following information:

-

- k. Records of closure cost estimates and post-closure (DISPOSAL ONLY) cost estimates required under OAC 3745-66 (Part 265 Subpart G)?

SEE CLOSURE  
SECTION.

2. Has the o/o submitted an annual (biennial) Treatment-Storage-Disposal Operating Report (by March 1) containing all of the operating information required under 3745-65-75 (265.75)?

N \_\_\_\_\_

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE ONLY TO OFF-SITE TSDS.

3. Are manifests received by the facility signed and dated?  
Is one copy given to the transporter, one copy sent to the generator within 30 days and one copy kept for at least 3 years?  
[3745-65-71(A)] (265.71)

N \_\_\_\_\_

N \_\_\_\_\_

- a. If shipping papers are used in lieu of manifests (bulk shipments, etc.), are the same requirements met [3745-65-71(B)] (265.71(b))?

NA \*

- b. Are any significant discrepancies in the manifest, as defined in 3745-65-72(A) (265.72(a)) noted in writing on the manifest document.

NA \_\_\_\_\_

4. Have any manifest discrepancies been reconciled within 15 days as required by 3745-65-72(B) (265.72(b)) or has the o/o submitted the required information to the Director/Regional Administrator?

NA \_\_\_\_\_

5. If the facility has accepted any unmanifested hazardous wastes from off-site sources for treatment, storage, or disposal, has an unmanifested waste report containing all the information required by 3745-65-76(A) (265.76) been submitted to the Director/Regional Administrator within 15 days?

N \_\_\_\_\_

\* Shipping Papers and Manifest are NOT used

[illegible]

1. Is a written closure plan on file at the facility which contains the following elements: [3745-66-12] (265.112)?
  - a. A description of how each hazardous waste management unit will be closed in accordance with 265.111.
  - b. A description of how final closure will meet the requirements of 3745-66-11 (265.111).
  - c. An estimate of the maximum amount of hazardous waste ever in inventory.
  - d. A description of steps taken to remove or decontaminate facility equipment containment systems, structures, soils, and all hazardous waste residues.
  - e. The year closure is expected to begin and a schedule for the various phases of closure.
  - f. A description of other activities necessary to ensure closure with the performance standards including ground water monitoring, leachate collection, and run-off control.
2. Has the closure plan (and post-closure plan, if applicable) been amended 60 days prior to any changes in facility design, processes, or closure dates or 60 days after an unexpected event occurs which affects the closure plan? [3745-66-12(C)] (265.112(C))
3. Has the closure plan (and post-closure plan, if applicable) for surface impoundment, waste pile, land treatment or landfill units been submitted to the Director/Regional Administrator 180 days prior to beginning the closure process? [3745-66-12(D)] (265.112(d))
4. Has the closure plan (and post-closure plan, if applicable) for tank, containers storage or incinerator units been submitted to the Director/Regional Administrator 45 days prior to beginning the closure process? [3745-66-12(D)] (265.112(d))

NA \*

NA.

\* Closure has NOT been Initiated or <sup>will be</sup> ~~initiated~~ at this time.

5. Within 90 days of receipt of the final volume of waste or Director's plan approval, if that is later, was all hazardous waste treated, removed, or disposed in accordance with the approved plan? [3745-66-13(A)] (265.113(a))
6. Was closure completed in accordance with the approved plan within 180 days after receipt of final volume of waste or approval of the plan, if that is later? [3745-66-13(B)] (265.113(b))
7. Did the owner/operator submit to the Director/Regional Administrator, within sixty (60) days after completion of closure, certification by both the owner/operator and an independent registered professional engineer that the facility has been closed in accordance with the approved closure plan? [3745-66-15] (265.115)
8. Did the owner/operator submit to the local zoning authority and the Director/Regional Administrator a survey plan in accordance with OAC 3745-66-16?
9. What permitted units at the facility have been closed in accordance with an approved Closure Plan?
10. If closure was partial, list the regulated units which remain in use at the facility:
11. If required, has the facility prepared a written post-closure plan? [3745-66-18] (265.118)
12. Does the post-closure plan include:
- A description of proposed ground water monitoring?
  - A description of planned maintenance activities?
  - The name, address and phone number of person/office to contact during the post-closure period?

NA

NA

NA

NA

NONE

NA

N



13. For disposal facilities, has the owner/operator submitted to local land authorities and the Director a survey plat within 60 days after certification of closure? [3745-66-19] (265.119) NA \_\_\_\_\_

14. Has the owner of the property on which a disposal unit is located recorded on the deed that:

- a. The land has been used to manage hazardous waste and the type, quantity and location of waste? N \_\_\_\_\_
- b. Land use is restricted pursuant to 3745-66-17? N \_\_\_\_\_  
[3745-66-19] (265.119)

General Operating Requirements. Does the facility provide the following:

- a. Run-on control capable of handling a 24-hr, 25-yr storm? [3745-68-02(A)] (265.302(a))
- b. Run-off control capable of handling a 24-hr, 25-yr storm? [3745-68-02(B)] (265.302(b))
- c. If run-off is hazardous waste, is it managed in accordance with applicable rules? [3745-68-02(B)]
- d. Are facilities associated with run-on and run-off control systems managed to maintain design capacity after rain events? [3745-68-02(C)] (265.302(c))
- e. Control of wind dispersal of hazardous waste? [3745-68-02(D)] (265.302(d))

N	

2. Surveying and Recordkeeping. Does the operating record include: [3745-68-09] (265.309)

- a. A map showing the exact location and dimensions of each cell? [3745-68-09(A)] (265.309(a))
- b. The contents of each cell and the location of each hazardous waste type within each cell? [3745-68-09(B)] (265.309(b))

N	
N	

3. Are ignitable or reactive wastes treated so the resulting mixture is no longer ignitable or reactive? [3745-68-12] (265.312(a)(b)),

N/A	
-----	--

NOTE: IF WASTE IS RENDERED NON-REACTIVE OR NON-IGNITABLE, SEE TREATMENT REQUIREMENTS. IF NOT, THE PROVISIONS OF 3745-65-17 AND 3745-68-12(B) APPLY. (40 CFR 265.17(b))

		<u>Y/N/NA</u>	<u>REMARK #</u>
4.	Does the owner/operator dispose of incompatible wastes in separate cells? [3745-68-13] (265.313) If not, the provisions of 3745-68-15 apply. (265.17(b))	<u>NA</u>	
5.	Are empty containers crushed flat, shredded, or similarly reduced in volume before being buried beneath the surface of the landfill? [3745-68-15] (265.315)	<u>NA</u>	
6.	Are containers at least 90% full prior to placement in the landfill?	<u>NA</u>	<u>*</u>
7.	Is bulk or non-containerized liquid waste or waste containing free liquids treated so that free liquids are not longer present. [3745-68-14(A)] (265.314(a))	<u>N</u>	
8.	Are containers other than lab packs, ampules, batteries or capacitors holding free liquids placed in the landfill? [3745-68-14(B)] (265.314(b)) If yes, has all free liquid been removed, absorbed or otherwise eliminated?	<u>NA</u>	
9.	Has the owner/operator employed Method 9095 (Paint Filter Liquids Test) to demonstrate the absence of free liquids in containerized or bulk waste? [3745-68-14(D)] (265.314(d))	<u>N</u>	
10.	Are the special requirements for lab pack waste met? [3745-68-16] (265.316)	<u>NA</u>	
11.	Is a written closure/post-closure plan available for inspection at the facility? [3745-66-12] (265.112)	<u>N</u>	
12.	Has the closure/post-closure plan been amended 60 days prior to any changes in facility design, or operation, or no later than 60 days after an unexpected event has occurred which has effected the closure plan? [3745-66-18(D)](265.118(d))	<u>N</u>	

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\* - Placement in the Landfill was in Bulk.

Y/N/NA REMARK #

13. Has the closure/post-closure plan been submitted to the Director/  
Regional Administrator 180 days prior to beginning closure?  
[3745-66-18(E)] (265.118(e))
14. Does the plan contain information required in 3745-68-107 (265.310)
15. Is a closure cost estimate available?
16. Has closure begun?
17. Has the property owner attached a notation to the property deed  
or other instrument which will notify any potential purchaser that  
the property has been used to manage hazardous waste and future use  
of the property is restricted under 3745-66-17(C) (265.117(c))  
as required in 3745-66-19 (265.119(b))?

NA	
N	*

\* No plan

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REPORT

Work Order # M9-06-56

07/11/89 07:35:16

REPORT Ohio EPA DSHWM  
TO 1800 Watermark Dr.  
P.O. Box 1049  
Columbus, OH 43266-0149  
ATTEN Susan Buchanan

PREPARED KEMRON ENVIRONMENTAL SERVICES  
BY 109 STARLITE PARK  
MARIETTA, OHIO 45750

*Donald L. Kington*  
CERTIFIED BY

ATTEN \_\_\_\_\_  
PHONE (614) 373-4071

CONTACT H BUSKIRK

CLIENT OEPA 56664 SAMPLES 4  
COMPANY Ohio EPA  
FACILITY 1800 Watermark Dr.  
Columbus, Ohio 43266-0149

ALL WORK PERFORMED IN ACCORDANCE WITH STANDARD METHODOLOGY.

\* Analysis performed on DI EP-Toxicity Leachate  
(Phenol, CN, F)

WORK ID K890613-2/ American Steel  
TAKEN \_\_\_\_\_  
TRANS \_\_\_\_\_  
TYPE \_\_\_\_\_  
P.O. # 308731/113088  
INVOICE under separate cover

TEST CODES and NAMES used on this report

SAMPLE IDENTIFICATION  
1 ASF 001 K890613-2  
2 ASF 002 K890613-2  
3 ASF 007 K890613-2  
4 ASF 008 K890613-2

AG Silver, Total  
AS Arsenic, Total  
BA Barium, Total  
CD Cadmium, Total  
CN Cyanide, Total  
CR Chromium, Total  
EP\_MET EP Toxicity Metals  
F Fluoride  
HG Mercury, Total  
M8240 Volatile Organics  
PB\_FU Lead, Total  
PHENOL Phenolics, Total  
SE Selenium, Total

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OHIO EPA-N.E.D.O.

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON REPORT  
07/21/89 11:22:57

Work Order # M9-06--43

REPORT Ohio EPA DSHWM  
TO 1800 Watermark Dr.  
P.O. Box 1049  
Columbus, OH 43266-0149  
ATTEN Susan Buchanan

PREPARED KEMRON ENVIRONMENTAL SERVICES  
BY 109 STARLITE PARK  
MARIETTA, OHIO 45750

David L. Banger  
CERTIFIED BY

ATTEN \_\_\_\_\_  
PHONE (614) 373-4071

CONTACT H BUSKIRK

CLIENT OEPA 56664 SAMPLES 7  
COMPANY Ohio EPA  
FACILITY 1800 Watermark Dr.  
Columbus, Ohio 43266-0149

ALL WORK PERFORMED IN ACCORDANCE WITH STANDARD METHODOLOGY.

WORK ID K890606-1/ American Steel  
TAKEN \_\_\_\_\_  
TRANS \_\_\_\_\_  
TYPE \_\_\_\_\_  
P.O. # 308731/113088  
INVOICE under separate cover

**SAMPLE IDENTIFICATION**

01 ASF-011 -Top- K890606-1  
01 ASF-011-Bottom- K890606-1  
02 ASF-010 K890606-1  
03 ASF-009 K890606-1  
04 ASF-006 K890606-1  
05 ASF-005 K890606-1  
06 ASF-004 K890606-1  
07 ASF-003 K890606-1

**TEST CODES and NAMES used on this report**

EP MET EP Toxicity Metals  
FLASH Flashpoint  
M8240 Volatile Organics  
PH\_L pH (Lab)

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REPORT  
Test Methodology

Work Order # M9-06-16

TEST CODE AG NAME Silver, Total

Method 200.7 (ICP) or 272.1 (AA - Direct Aspiration)

TEST CODE AS NAME Arsenic, Total

Method 206.3 (AA Vapor Hydride)

TEST CODE BA NAME Barium, Total

Method 200.7 - (ICAP) or 208.1 (AA - Direct Aspiration)

TEST CODE CD NAME Cadmium, Total

Method 200.7 (ICP) or 213.1 (AA - Direct Aspiration)

TEST CODE CN NAME Cyanide, Total

Method 335.2 Reflux, Spectrophotometric, Titrimetric

TEST CODE CR NAME Chromium, Total

Method 200.7 (ICP) or 218.1 (AA - Direct Aspiration)

TEST CODE EP\_MET NAME EP Toxicity Metals

Method 1310 (SW-846)

TEST CODE F NAME Fluoride

Method 340.2 Fluoride Electrode

TEST CODE HG NAME Mercury, Total

Method 245.1 (Cold Vapor)

TEST CODE M8240 NAME Volatile Organics

Method 8240 Volatile Organics - Purge and Trap

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REPORT  
Test Methodology

Work Order # M9-06-156

TEST CODE PB FU NAME Lead, Total

AA Method 239.2 AA Graphite Furnace

TEST CODE PHENOL NAME Phenolics, Total

AA Method 420.1 Spectrophotometric Manual 4-AAP  
with distillation

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REPORT  
Test Methodology

Work Order # M9-06-1

TEST CODE EP\_MET NAME EP Toxicity Metals

AP Method 1310 (SW-846)

TEST CODE FLASH NAME Flashpoint

AP Method 1010 SW-846 (Pensky-Martens Closed-Cup)

TEST CODE M8240 NAME Volatile Organics

AP Method 8240 Volatile Organics - Purge and Trap

TEST CODE PH\_L NAME pH (Lab)

AP Method 150.1 - Electrometric

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CLIENT: Ohio EPA DSHWM  
REPORT NO.: M9-06-143

## ANALYTICAL REPORT FORM

KEMRON  
SAMPLE # CLIENT IDENTIFICATION RESULTS OF ANALYSIS  
=====

		PAINT FILTER LIQUID TEST
06-143-04	ASF-006 - K890606-1	NO
06-143-05	ASF-005 - K890606-1	YES
06-143-06	ASF-004 - K890606-1	NO
06-143-07	ASF-003 - K890606-1	NO

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KEMRON  
REPORT  
Results by Sample

Work Order # M9-06-16.

SAMPLE ID ASF 001		K890613-2		SAMPLE # 01		FRACTIONS: A, B					
Date & Time Collected 06/09/89 12:08:00				Category WATER							
AG	<0.01	AS	0.01	BA	0.86	CD	<0.01	CR	<0.02	HG	<0.0005
	mg/l Ag		mg/l As		mg/l Ba		mg/l Cd		mg/l Cr		mg/l Hg
PB	0.067	SE	<0.004								
	mg/l Pb		mg/l Se								

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KEMRON REPORT  
Results by Sample

Work Order # M9-06-

SAMPLE ID ASF 001 K890613-2 FRACTION 01A TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 12:08:00 Category WATER

ANALYST: FSA FILE #: 20E7197  
INSTRMT: FINN2 INJECTD: 06/15/89 FACTOR: 1 UNITS: ug/L VERIFIED: DMD

CAS#	COMPOUND	RESULT	DET LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene chloride	BDL	5
67-64-1	Acetone	BDL	10
75-15-0	Carbon disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
540-59-0	1,2-Dichloroethene (total)	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	10
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon tetrachloride	BDL	5
108-05-4	Vinyl acetate	BDL	10
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
110-75-8	2-Chloroethyl vinyl ether	BDL	10
75-25-2	Bromoform	BDL	5
591-78-6	2-Hexanone	BDL	10
108-10-1	4-Methyl-2-pentanone	BDL	10
127-18-4	Tetrachloroethene	BDL	5

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Received: 06/14/89

KEMRON REPORT  
Results by Sample

Work Order # M9-06-16  
Continued From Above

SAMPLE ID ASF 001 K890613-2 FRACTION 01A TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 12:08:00 Category WATER

CAS#	COMPOUND	RESULT	DET	LIMIT
108-88-3	Toluene	BDL		5
79-34-5	1,1,2,2,-Tetrachloroethane	BDL		5
108-90-7	Chlorobenzene		8	5
100-41-4	Ethyl benzene	BDL		5
100-42-5	Styrene	BDL		5
1330-20-7	Xylenes (Total)		12	5

SURROGATES	
1,2-Dichloroethane-d4	<u>97</u> % Recovery
Toluene-d8	<u>98</u> % Recovery
p-Bromofluorobenzene	<u>93</u> % Recovery

NOTES AND DEFINITIONS FOR THIS REPORT  
DET LIMIT = DETECTION LIMIT  
BDL = BELOW DETECTION LIMIT  
\* = SEMI-QUANTITATIVE SCREEN ONLY

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KEMRON ENVIRONMENTAL

KEMRON REPORT  
Results by Sample

Work Order # M9-06 .66

SAMPLE ID <u>ASF 002</u>		<u>K890613-2</u>		SAMPLE # <u>02</u>		FRACTIONS: <u>A,B</u>					
Date & Time Collected <u>06/09/89 12:29:00</u>				Category <u>WATER</u>							
AG	<u>&lt;0.01</u> mg/l Ag	AS	<u>0.02</u> mg/l As	BA	<u>0.30</u> mg/l Ba	CD	<u>0.01</u> mg/l Cd	CR	<u>0.2</u> mg/l Cr	HG	<u>0.001</u> mg/l Hg
PB_FU	<u>0.03</u> mg/l Pb	SE	<u>&lt;0.004</u> mg/l Se								

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KEMRON REPORT  
Results by Sample

Work Order # M9-06-1

MPLE ID ASF 002

K890613-2

FRACTION 02A

TEST CODE M8240

NAME Volatile Organics

Date & Time Collected 06/09/89 12:29:00

Category WATER

ANALYST: JLJ  
INSTRMT: FINN2

FILE #: 20E7199  
INJECTD: 06/15/89 FACTOR:

1

UNITS:

ug/L

VERIFIED: DMD

CAS#	COMPOUND	RESULT	DET LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene chloride	BDL	5
67-64-1	Acetone	490000	10
75-15-0	Carbon disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
540-59-0	1,2-Dichloroethene (total)	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	10
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon tetrachloride	BDL	5
108-05-4	Vinyl acetate	BDL	10
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
110-75-8	2-Chloroethyl vinyl ether	BDL	10
75-25-2	Bromoform	BDL	5
591-78-6	2-Hexanone	BDL	10
108-10-1	4-Methyl-2-pentanone	BDL	10
127-18-4	Tetrachloroethene	BDL	5

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KEMRON  
Results by Sample

Work Order # M9-06-166  
Continued From Above

SAMPLE ID ASF 002 K890613-2 FRACTION 02A TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 12:29:00 Category WATER

CAS#	COMPOUND	RESULT	DET LIMIT
108-88-3	Toluene	BDL	5
79-34-5	1,1,2,2,-Tetrachloroethane	BDL	5
108-90-7	Chlorobenzene	15	5
100-41-4	Ethyl benzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (Total)	BDL	5

SURROGATES	
1,2-Dichloroethane-d4	<u>85</u> % Recovery
Toluene-d8	<u>94</u> % Recovery
p-Bromofluorobenzene	<u>78</u> % Recovery

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NOTES AND DEFINITIONS FOR THIS REPORT

DET LIMIT = DETECTION LIMIT

BDL = BELOW DETECTION LIMIT

\* = SEMI-QUANTITATIVE SCREEN ONLY

DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON  
Results by Sample

Work Order # M9-06-143

SAMPLE ID ABF-003 K890606-1 FRACTION 07A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/09/89 12:43:00 Category SLUDGE

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.13	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	<0.001	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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DIV. of SOLID & HAZ. WASTE MGT.

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REPORT

Results by Sample

Work Order # M9-( 143

SAMPLE ID ASF-003

K890606-1

SAMPLE # 07 FRACTIONS: A

Date & Time Collected 06/09/89 12:43:00 Category SLUDGE

FLASH 56  
Degrees C

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REPORT  
Results by Sample

Work Order # M9-06-143

SAMPLE ID ASF-004 K890606-1 FRACTION 06A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/09/89 11:08:00 Category SLUDGE

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	<0.01	100.0
D006	Cadmium	0.03	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	<0.001	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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KEMRON ELECTROPHORETIC SERVICES

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KEMRON REPORT  
Results by Sample

Work Order # M9-06-143

SAMPLE ID <u>ASF-004</u>	<u>K890606-1</u>	SAMPLE # <u>06</u> FRACTIONS: <u>A</u>	
		Date & Time Collected <u>06/09/89 11:08:00</u>	Category <u>SLUDGE</u>
FLASH <u>46</u>			
Degrees C			

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KEMRON  
Results by Sample

Work Order # M9-06-143

SAMPLE ID ASF-005 K890606-1 FRACTION 05A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/09/89 13:18:00 Category LIQUID

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.28	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	0.001	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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REPORT  
Results by Sample

Work Order # M9-6 143

SAMPLE ID ASF-005 K890606-1 SAMPLE # 05 FRACTIONS: A  
Date & Time Collected 06/09/89 13:18:00 Category LIQUID

FLASH 53  
Degrees C

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KEMRON  
Results by Sample

Work Order # M9-00-143

SAMPLE ID ASF-006 K890606-1 FRACTION 04A TEST CODE EP\_MET NAME EP Toxicity Metals  
Date & Time Collected 06/09/89 13:38:00 Category SLUDGE

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.14	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	<0.001	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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KEMRON REPORT  
Results by Sample

Work Order # M9-0 166

SAMPLE ID	ASF 007	K890613-2	SAMPLE #	03	FRACTIONS:	A	
Date & Time Collected			06/09/89 14:00:00			Category	SOLID
CN	<0.01 *	F	0.3 *	PHENOL	<0.002 *		
	mg/l CN		mg/l F		mg/l Phenol		

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KEMRON INC. HAZ. WASTE MGT.



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REPORT

Results by Sample

Page 9  
Received: 06/14/89FRACTION 03A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/09/89 14:00:00 Category SOLIDSAMPLE ID ASF 007K890613-2

## EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.18	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	<0.001	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZEDRECEIVED  
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DIV. of SOLID &amp; HAZ. WASTE MGT.

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KEMRON ENVIRONMENTAL SERVICES

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KEMRON

REPORT

Work Order # M9-0 166

Results by Sample

SAMPLE ID ASF 008 K890613-2 SAMPLE # 04 FRACTIONS: A  
Date & Time Collected 06/09/89 14:15:00 Category SOLID

CN <0.01 \* F 0.1 \* PHENOL 0.033 \*  
mg/l CN mg/l F mg/l Phenol

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KEMRON  
REPORT  
Results by Sample

Work Order # M9-06 166

SAMPLE ID ASF 008 K890613-2 FRACTION 04A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/09/89 14:15:00 Category SOLID

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.1	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	<0.001	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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REPORT

Work Order # M9-06--43

## Results by Sample

SAMPLE ID ASF-010

K890606-1

SAMPLE # 02 FRACTIONS: A

Date &amp; Time Collected 06/09/89 14:50:00

Category LIQUID

FLASH >95  
Degrees C

SAMPLE ID ASF-009

K890606-1

SAMPLE # 03 FRACTIONS: A

Date &amp; Time Collected 06/09/89

Category LIQUID

PH\_L 10.4  
S.U.

SAMPLE ID ASF-006

K890606-1

SAMPLE # 04 FRACTIONS: A

Date &amp; Time Collected 06/09/89 13:38:00

Category SLUDGE

FLASH 51  
Degrees CRECEIVED  
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DIV. of SOLID &amp; HAZ. WASTE MGT.

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KEMRON REPORT  
Results by Sample

Work Order # M9- 5 43

SAMPLE ID ABF-011 -Top- K890606-1 FRACTION 01A TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 15:26:00 Category LIQUID

ANALYST: SPL FILE #: 20E7229  
INSTRMT: FINN2 INJECTD: 06/19/89 FACTOR: 5 UNITS: mg/L

CAS#	COMPOUND	RESULT	DET	LIMIT
74-87-3	Chloromethane	BDL		50
74-83-9	Bromomethane	BDL		50
75-01-4	Vinyl chloride	BDL		50
75-00-3	Chloroethane	BDL		50
75-09-2	Methylene chloride		400	30
67-64-1	Acetone		500	50
75-15-0	Carbon disulfide	BDL		30
75-35-4	1,1-Dichloroethene		200	30
75-34-3	1,1-Dichloroethane	BDL		30
540-59-0	1,2-Dichloroethene (total)	BDL		30
67-66-3	Chloroform	BDL		30
107-06-2	1,2-Dichloroethane	BDL		30
78-93-3	2-Butanone	BDL		50
71-55-6	1,1,1-Trichloroethane		850	30
56-23-5	Carbon tetrachloride	BDL		30
108-05-4	Vinyl acetate	BDL		50
75-27-4	Bromodichloromethane	BDL		30
78-87-5	1,2-Dichloropropane	BDL		30
10061-01-5	cis-1,3-Dichloropropene	BDL		30
79-01-6	Trichloroethene	BDL		30
124-48-1	Dibromochloromethane	BDL		30
79-00-5	1,1,2-Trichloroethane	BDL		30
71-43-2	Benzene	BDL		30
10061-02-6	trans-1,3-Dichloropropene	BDL		30
110-75-8	2-Chloroethyl vinyl ether	BDL		50
75-25-2	Bromoform	BDL		30
591-78-6	2-Hexanone	BDL		50
108-10-1	4-Methyl-2-pentanone	BDL		50
127-18-4	Tetrachloroethene		1400	30
108-88-3	Toluene		290	30
79-34-5	1,1,2,2,-Tetrachloroethane		210	30
108-90-7	Chlorobenzene	BDL		30

VERIFIED: DMD

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON  
Results by Sample

Work Order # M9-06043  
Continued From

SAMPLE ID ASF-011 -Top- K890606-1 FRACTION 01A TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 15:26:00 Category LIQUID

CAS#	COMPOUND	RESULT	DET LIMIT
100-41-4	Ethyl benzene	BDL	30
100-42-5	Styrene	BDL	30
1330-20-7	Xylenes (Total)	740	30

SURROGATES	
1,2-Dichloroethane-d4	<u>93</u> % Recovery
Toluene-d8	<u>100</u> % Recovery
p-Bromofluorobenzene	<u>80</u> % Recovery

NOTES AND DEFINITIONS FOR THIS REPORT  
DET LIMIT = DETECTION LIMIT  
BDL = BELOW DETECTION LIMIT  
\* = SEMI-QUANTITATIVE SCREEN ONLY

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON CORPORATION

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KEMRON

REPORT

Work Order # MS C 143

Results by Sample

SAMPLE ID ASF-011 -Top- K890606-1      SAMPLE # 01      FRACTIONS: A  
Date & Time Collected 06/09/89 15:26:00      Category LIQUID

FLASH >95  
Degrees C

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON REPORT  
Results by Sample

Work Order # M9-06-143

SAMPLE ID ASF-011-Bottom- K890606-1 FRACTION 01B TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 15:26:00 Category LIQUID

ANALYST: PJK  
INSTRMT: FINN2

FILE #: 20E7221  
INJECTD: 06/16/89 FACTOR: 5 UNITS: ug/L VERIFIED: DMD

CAS#	COMPOUND	RESULT	DET LIMIT
74-87-3	Chloromethane	BDL	50
74-83-9	Bromomethane	BDL	50
75-01-4	Vinyl chloride	BDL	50
75-00-3	Chloroethane	BDL	50
75-09-2	Methylene chloride	18000	30
67-64-1	Acetone	2700	50
75-15-0	Carbon disulfide	BDL	30
75-35-4	1,1-Dichloroethene	150	30
75-34-3	1,1-Dichloroethane	BDL	30
540-59-0	1,2-Dichloroethene (total)	BDL	30
67-66-3	Chloroform	BDL	30
107-06-2	1,2-Dichloroethane	BDL	30
78-93-3	2-Butanone	BDL	50
71-55-6	1,1,1-Trichloroethane	140	30
56-23-5	Carbon tetrachloride	BDL	30
108-05-4	Vinyl acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	30
78-87-5	1,2-Dichloropropane	BDL	30
10061-01-5	cis-1,3-Dichloropropene	BDL	30
79-01-6	Trichloroethene	BDL	30
124-48-1	Dibromochloromethane	BDL	30
79-00-5	1,1,2-Trichloroethane	BDL	30
71-43-2	Benzene	BDL	30
10061-02-6	trans-1,3-Dichloropropene	BDL	30
110-75-8	2-Chloroethyl vinyl ether	BDL	50
75-25-2	Bromoform	BDL	30
591-78-6	2-Hexanone	BDL	50
108-10-1	4-Methyl-2-pentanone	BDL	50
127-18-4	Tetrachloroethene	1200	30

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DIV. of SOLID & HAZ. WASTE MGT.





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REPORT  
Results by Sample

Work Order # M9-06-143  
Continued From Above

SAMPLE ID ASF-011-Bottom- K890606-1

FRACTION 01B TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 15:26:00 Category LIQUID

CAS#	COMPOUND	RESULT	DET LIMIT
108-88-3	Toluene	150	30
79-34-5	1,1,2,2,-Tetrachloroethane	46	30
108-90-7	Chlorobenzene	BDL	30
100-41-4	Ethyl benzene	BDL	30
100-42-5	Styrene	BDL	30
1330-20-7	Xylenes (Total)	180	30

SURROGATES	% Recovery
1,2-Dichloroethane-d4	83
Toluene-d8	78
p-Bromofluorobenzene	85

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NOTES AND DEFINITIONS FOR THIS REPORT  
DET LIMIT = DETECTION LIMIT  
BDL = BELOW DETECTION LIMIT  
\* = SEMI-QUANTITATIVE SCREEN ONLY

DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON ENVIRONMENTAL

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Received: 06/13/89

KEMRON REPORT  
Results by Sample

Work Order # M9-06-143

SAMPLE ID ASF-011-Bottom- K890606-1

SAMPLE # 01 FRACTIONS: B

Date & Time Collected 06/09/89 15:26:00 Category LIQUID

FLASH 62  
Degrees C

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DIV. of SOLID & HAZ. WASTE MGT.

**KEMRON**  
KEMRON ENVIRONMENTAL SERVICES

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/14/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
IRON-ICP	mg/l	JKM	1.04	1.04	1.24	0.972	0.129	0.144	0.015	*
SULFATE	mg/l	WMW	20	19	25.3	16.2	48	48	0	*
MERCURY-CV	mg/l	JKM	0.01	0.0109	0.013	0.007	0	0	0	*
TIN-FURNACE	mg/l	JKM	0.05	0.054	*	*	0	0.001	0.001	*
PHENOLICS	mg/l	DIH	0.5	0.482	0.55	0.451	1.1	0.95	0.15	*
ALUMINUM-ICP	mg/l	JKM	1	1.1	1.34	0.983	0.181	0.2	0.019	*
ANTIMONY-ICP	mg/l	JKM	1	0.973	1.137	0.909	0.021	0.013	0.008	*
BARIUM-ICP	mg/l	JKM	1.02	0.975	*	*	0.026	0.025	0.001	*
CALCIUM-ICP	mg/l	JKM	10.1	10	10.7	9.71	22	21.05	0.95	*
CADMIUM-ICP	mg/l	JKM	1	0.942	*	*	0	0	0	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.01	*	*	0.011	0.011	0	*
COPPER-ICP	mg/l	JKM	1.02	1.02	*	*	0.004	0.004	0	*
IRON-ICP	mg/l	JKM	1.04	1.04	1.24	0.972	0.084	0.077	0.007	*
MAGNESIUM-ICP	mg/l	JKM	10	10.8	11	9.93	14.722	14.25	0.472	*
MANGANESE-ICP	mg/l	JKM	1.04	1.06	1.097	1.007	0.005	0.005	0	*
NICKEL-ICP	mg/l	JKM	1	0.997	*	*	0.003	0.001	0.002	*
SILVER-ICP	mg/l	JKM	0.2	0.164	*	*	-0.001	0	0.001	*
SODIUM-ICP	mg/l	JKM	10.1	10	*	*	27.194	26.25	0.944	*
ZINC-ICP	mg/l	JKM	1	0.861	*	*	0.024	0.027	0.003	*
BOD	mg/l	SMC/DIH	200	197	237	167	790	840	50	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/14/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
IRON-ICP	mg/l	JKM	0.007	*	1.04	1.07	103	*	*
SULFATE	mg/l	WMW	0	*	10	8.4	84	*	*
MERCURY-CV	mg/l	JKM	0	*	0.01	0.0101	101	*	*
TIN-FURNACE	mg/l	JKM	0	*	0.05	0.039	78	*	*
PHENOLICS	mg/l	DIH	0.001	*	0.5	0.486	97	*	*
ALUMINUM-ICP	mg/l	JKM	0.003	*	1	0.928	93	*	*
ANTIMONY-ICP	mg/l	JKM	0.021	*	1	0.859	86	*	*
BARIUM-ICP	mg/l	JKM	0.007	*	1.02	0.863	85	*	*
CALCIUM-ICP	mg/l	JKM	0.023	*	10.1	8	79	*	*
CADMIUM-ICP	mg/l	JKM	0.002	*	1	0.85	85	*	*
CHROMIUM-ICP	mg/l	JKM	0.001	*	1.02	0.933	91	*	*
COPPER-ICP	mg/l	JKM	0.003	*	1.02	0.881	86	*	*
IRON-ICP	mg/l	JKM	0.006	*	1.04	0.907	87	*	*
MAGNESIUM-ICP	mg/l	JKM	0.018	*	10	11.8	118	*	*
MANGANESE-ICP	mg/l	JKM	0.002	*	1.04	0.946	91	*	*
NICKEL-ICP	mg/l	JKM	0.003	*	1	0.864	86	*	*
SILVER-ICP	mg/l	JKM	-0.001	*	0.2	0.157	79	*	*
SODIUM-ICP	mg/l	JKM	0.031	*	10.1	9.1	90	*	*
ZINC-ICP	mg/l	JKM	0.007	*	1	0.875	88	*	*
BOD	mg/l	SMC/DIH	0.6	*	200	203	102	*	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/15/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
COD	mg/l	DIH	64	68.2	76.8	51.2	520	580	60	*
TOC	mg/l	DIH	50	51.6	53.4	46.4	160	160	0	*
CYANIDE	mg/l	DIH	0.2	0.176	0.213	0.14	---	---	---	*
CHROMIUM VI	mg/l	SMC	0.1	0.098	0.104	0.082	0.01	0.01	0	*
MERCURY-CV	mg/l	JKM	0.01	0.0114	0.013	0.007	0	0	0	*
BARIUM-ICP	mg/l	JKM	1.02	0.984	*	*	0.029	0.028	0.001	*
CADMIUM-ICP	mg/l	JKM	1	0.957	*	*	0.001	0	0.001	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.02	*	*	0.012	0.012	0	*
SILVER-ICP	mg/l	JKM	0.2	0.175	*	*	0.001	0	0.001	*
OIL AND GREASE	mg/l	SMC	10	7.9	10.2	8.4	8	8	0	*
ARSENIC-VH	mg/l	JKM	0.051	0.0481	*	*	0.0007	0.0008	0.0001	*
LEAD-FLAME	mg/l	JKM	1.02	1.02	*	*	-0.01	-0.0125	0.0025	*
AMMONIA	mg/l	WMW	10	9.91	10.7	9.2	0	0	0	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

KEMRON Environmental Services  
 QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/15/89

	METHOD BLANK			MATRIX/MEDIA SPIKE					
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
COD	mg/l	DIH	1	*	160	215	134	*	*
TOC	mg/l	DIH	0.08	*	25	18.1	72	*	*
CYANIDE	mg/l	DIH	0.001	*	---	---	---	*	*
CHROMIUM VI	mg/l	SMC	0.01	*	0.1	0.098	98	*	*
MERCURY-CV	mg/l	JKM	-0.0002	*	0.01	0.0113	113	*	*
BARIUM-ICP	mg/l	JKM	0.012	*	1.02	1.007	99	*	*
CADMIUM-ICP	mg/l	JKM	0.002	*	1	1.013	101	*	*
CHROMIUM-ICP	mg/l	JKM	0	*	1.02	1.084	106	*	*
SILVER-ICP	mg/l	JKM	-0.002	*	0.2	0.19	95	*	*
OIL AND GREASE	mg/l	SMC	1.6	*	10	7.7	77	*	*
ARSENIC-VH	mg/l	JKM	0.00025	*	0.051	0.0493	97	*	*
LEAD-FLAME	mg/l	JKM	0.02	*	1.02	0.96	94	*	*
AMMONIA	mg/l	WMW	0	*	10	10.2	102	*	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

KEMRON Environmental Services  
QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/19/89

Parameter	Units	Analyst	REFERENCE STANDARD			DUPLICATE SAMPLE		Range	UCLr	
			Known	Result	UCLx	LCLx	Result1	Result2		
PHOSPHORUS	mg/l	DIH	1	0.973	1.19	0.78	0.23	0.16	0.07	*
NITRATE	mg/l	DIH	0.25	0.248	0.293	0.2	2.9	3	0.1	*
TPH	mg/l	DHT	100	104	*	*	200	210	10	*
ALUMINUM-ICP	mg/l	JKM	1	1.02	1.34	0.983	0.461	0.45	0.011	*
ANTIMONY-ICP	mg/l	JKM	1	1.05	1.137	0.909	0.04	0.007	0.033	*
BARIUM-ICP	mg/l	JKM	1.02	0.965	*	*	0.069	0.074	0.005	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.26	*	*	0	0	0	*
CADMIUM-ICP	mg/l	JKM	1	0.959	*	*	0.001	0	0.001	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.04	*	*	0.005	0.005	0	*
COPPER-ICP	mg/l	JKM	1.02	0.968	*	*	0.172	0.186	0.014	*
IRON-ICP	mg/l	JKM	1.04	1	1.24	0.972	1.042	0.918	0.124	*
MANGANESE-ICP	mg/l	JKM	1.04	1.04	1.097	1.007	0.048	0.043	0.005	*
NICKEL-ICP	mg/l	JKM	1	0.98	*	*	0	-0.002	0.002	*
SILVER-ICP	mg/l	JKM	0.2	0.17	*	*	-0.004	0	0.004	*
SODIUM-ICP	mg/l	JKM	10.1	9.86	*	*	32.25	33.25	1	*
ZINC-ICP	mg/l	JKM	1	0.857	*	*	0.825	0.708	0.117	*

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DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)  
LCLx = Lower Control Limit (Standard)  
UCLr = Upper Control Limit (Range)  
\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/19/89

Parameter	METHOD BLANK			MATRIX/MEDIA SPIKE					
	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec. (%)	UCLs (%)	LCLs (%)
PHOSPHORUS	mg/l	DIH	0.02	*	0.5	0.434	87	*	*
NITRATE	mg/l	DIH	0.026	*	0.25	0.229	92	*	*
TPH	mg/l	DHT	0	*	50	45.5	91	*	*
ALUMINUM-ICP	mg/l	JKM	0.007	*	1	0.996	100	*	*
ANTIMONY-ICP	mg/l	JKM	-0.017	*	1	1.02	102	*	*
BARIUM-ICP	mg/l	JKM	0.005	*	1.02	0.961	94	*	*
BERYLLIUM-ICP	mg/l	JKM	0	*	1.26	1.16	92	*	*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	0.925	93	*	*
CHROMIUM-ICP	mg/l	JKM	0	*	1.02	1.027	101	*	*
COPPER-ICP	mg/l	JKM	0.003	*	1.02	0.971	95	*	*
IRON-ICP	mg/l	JKM	0.003	*	1.04	0.9	87	*	*
MANGANESE-ICP	mg/l	JKM	0	*	1.04	1.027	99	*	*
NICKEL-ICP	mg/l	JKM	-0.01	*	1	0.942	94	*	*
SILVER-ICP	mg/l	JKM	0.001	*	0.2	0.164	82	*	*
SODIUM-ICP	mg/l	JKM	0.052	*	10.1	9.7	96	*	*
ZINC-ICP	mg/l	JKM	0.004	*	1	0.828	83	*	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection



## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/20/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
CYANIDE	mg/l	DIH	0.2	0.192	0.213	0.14	0.01	0.01	0	*
CADMIUM-ICP	mg/l	JKM	1	0.966	*	*	0.003	0.001	0.002	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.03	*	*	0.014	0.013	0.001	*
BARIUM-ICP	mg/l	JKM	1.02	1.01	*	*	0.1	0.097	0.003	*
SILVER-ICP	mg/l	JKM	0.2	0.178	*	*	0.017	0.017	0	*
LEAD-ICP	mg/l	JKM	1.02	1.03	*	*	0.025	0.017	0.008	*
LEAD-FURNACE	mg/l	JKM	0.051	0.047	*	*	0.03889	0.037	0.00189	*
TSS	mg/l	SMC	50	55	59	43	26	28	2	*
TDS	mg/l	SMC	500	490	543	457	960	1000	40	*
TOTAL SOLIDS	mg/l	SMC	500	506	527	477	300	300	0	*

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JUL 12 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

KEMRON Environmental Services  
QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/20/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
CYANIDE	mg/l	DIH	0.002	*	0.2	0.247	124	*	*
CADMIUM-ICP	mg/l	JKM	0.003	*	1	0.94	94	*	*
CHROMIUM-ICP	mg/l	JKM	0.002	*	1.02	0.981	96	*	*
BARIUM-ICP	mg/l	JKM	0.003	*	1.02	0.958	94	*	*
SILVER-ICP	mg/l	JKM	0	*	0.2	0.169	85	*	*
LEAD-ICP	mg/l	JKM	0.014	*	1.02	0.99	97	*	*
LEAD-FURNACE	mg/l	JKM	0.0005	*	0.051	0.039	76	*	*
TSS	mg/l	SMC	-4	*	50	51	102	*	*
TDS	mg/l	SMC	0	*	500	540	108	*	*
TOTAL SOLIDS	mg/l	SMC	110	*	500	516	103	*	*

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
UCLs = Upper Control Limit (Spike Recovery)  
LCLs = Lower Control Limit (Spike Recovery)  
\* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/21/89

Parameter	Units	Analyst	REFERENCE STANDARD			DUPLICATE SAMPLE				
			Known	Result	UCLx	LCLx	Result1	Result2	Range	UCLr
SELENIUM-VH	mg/l	JKM	0.05	0.0505	0.058	0.04	0.0001	0.0003	0.0002	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.24	*	*	0.001	0.001	0	*
SULFATE	mg/l	WMW	20	22	25.3	16.2	74	70	4	*
CADMIUM-ICP	mg/l	JKM	1	0.965	*	*	0.001	0.001	0	*
ARSENIC-VH	mg/l	JKM	0.051	0.0477	*	*	0.0088	0.0103	0.0015	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.04	*	*	0.028	0.025	0.003	*
LEAD-ICP	mg/l	JKM	1.02	1	*	*	0.053	0.059	0.006	*
COPPER-ICP	mg/l	JKM	1.02	0.992	*	*	0.422	0.415	0.007	*
ANTIMONY-ICP	mg/l	JKM	1	1	1.137	0.909	0.009	-0.004	0.013	*
IRON-ICP	mg/l	JKM	1.04	1.01	1.24	0.972	0.388	0.31	0.078	*
PHENOLICS	mg/l	DIH	0.5	0.506	0.55	0.451	4	4.5	0.5	*
NICKEL-ICP	mg/l	JKM	1	0.979	*	*	0.056	0.052	0.004	*
ALUMINUM-ICP	mg/l	JKM	1	1.08	1.34	0.983	10.694	10.125	0.569	*
THALLIUM-FURNACE	mg/l	JKM	0.05	0.051	*	*	-0.0022	-0.002	0.00022	*
BARIUM-ICP	mg/l	JKM	1.02	0.981	*	*	0.127	0.136	0.009	*
SILVER-ICP	mg/l	JKM	0.2	0.172	*	*	0	0.002	0.002	*
ZINC-ICP	mg/l	JKM	1	0.858	*	*	0.469	0.445	0.024	*
BOD	mg/l	SMC	200	197	237	167	<3	<3	0	*

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OHIO EPA

JUL 12 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/21/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
SELENIUM-VH	mg/l	JKM	-0.0001	*	0.05	0.0495	99	*	*
BERYLLIUM-ICP	mg/l	JKM	0	*	1.26	1.169	93	*	*
SULFATE	mg/l	WTV	2	*	10	12.9	129	*	*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	0.885	89	*	*
ARSENIC-VH	mg/l	JKM	0.0001	*	0.051	0.0513	101	*	*
CHROMIUM-ICP	mg/l	JKM	0.001	*	1.02	0.975	96	*	*
LEAD-ICP	mg/l	JKM	0.008	*	1.02	1.004	98	*	*
COPPER-ICP	mg/l	JKM	0.001	*	1.02	0.99	97	*	*
ANTIMONY-ICP	mg/l	JKM	-0.004	*	1	0.923	92	*	*
IRON-ICP	mg/l	JKM	-0.001	*	1.04	0.9	87	*	*
PHENOLICS	mg/l	DIH	0.001	*	0.5	0.474	95	*	*
NICKEL-ICP	mg/l	JKM	-0.011	*	1	0.928	93	*	*
ALUMINUM-ICP	mg/l	JKM	0.023	*	1	0.916	92	*	*
THALLIUM-FURNACE	mg/l	JKM	0	*	0.05	0.038	76	*	*
BARIUM-ICP	mg/l	JKM	0.004	*	1.02	0.924	91	*	*
SILVER-ICP	mg/l	JKM	-0.003	*	0.2	0.169	85	*	*
ZINC-ICP	mg/l	JKM	0.006	*	1	0.75	75	*	*
BOD	mg/l	SMC	0.4	*	200	189	95	*	*

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JUL 12 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/22/89

Parameter	REFERENCE STANDARD						DUPLICATE SAMPLE		Range UCLr	
	Units	Analyst	Known	Result	UCLx	LCLx	Result1	Result2		
BROMIDE	mg/l	DIH	40	41.5	*	*	1	1	0	*
TOC	mg/l	DIH	50	46.1	53.4	46.4	16	15	1	*
COD	mg/l	DIH	64	57.1	76.8	51.2	1	1	0	*
FLUORIDE	mg/l	DIH	2	2.03	2.25	1.88	0.3	0.3	0	*
AMMONIA	mg/l	WMW	10	9.9	10.7	9.2	1	1	0	*
MERCURY-CV	mg/l	JKM	0.01	0.0107	0.013	0.007	0.0002	0.0002	0	*
ALUMINUM-ICP	mg/l	JKM	1	1.01	1.34	0.983	5.82	6.04	0.22	*
BARIUM-ICP	mg/l	JKM	1.02	0.971	*	*	0.138	0.138	0	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.24	*	*	0	0.006	0.006	*
CALCIUM-ICP	mg/l	JKM	10.1	9.99	10.7	9.71	63.8	61.4	2.4	*
CADMIUM-ICP	mg/l	JKM	1	0.938	*	*	0	0.006	0.006	*
CHROMIUM-ICP	mg/l	JKM	1.02	1	*	*	0.014	0.014	0	*
COPPER-ICP	mg/l	JKM	1.02	1	*	*	0.474	0.458	0.016	*
IRON-ICP	mg/l	JKM	1.04	1.01	1.24	0.972	14.3	14.2	0.1	*
MAGNESIUM-ICP	mg/l	JKM	10	10.3	11	9.93	15.56	14.82	0.74	*
NICKEL-ICP	mg/l	JKM	1	0.971	*	*	0.0064	0.0066	0.0002	*
SODIUM-ICP	mg/l	JKM	10.1	10	*	*	37.4	36.8	0.6	*
ZINC-ICP	mg/l	JKM	1	0.833	*	*	0.61	0.544	0.066	*
TPH	mg/l	WMW	100	99.1	*	*	4000	3300	700	*
OIL AND GREASE	mg/l	SMC	10	8.9	10.2	8.4	8.1	8.9	0.8	*

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JUL 12 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/22/89

Parameter	Units	METHOD BLANK			MATRIX/MEDIA SPIKE				
		Analyst	Result	UCLb	Conc.	Recovery	Rec. (%)	UCLs (%)	LCLs (%)
BROMIDE	mg/l	DIH	1	*	16	17.6	110	*	*
TOC	mg/l	DIH	0.2	*	25	18.3	73	*	*
COD	mg/l	DIH	1	*	32	27.1	85	*	*
FLUORIDE	mg/l	DIH	0.05	*	0.4	0.4	100	*	*
AMMONIA	mg/l	WMW	0	*	10	10	100	*	*
MERCURY-CV	mg/l	JKM	0	*	0.01	0.0097	97	*	*
ALUMINUM-ICP	mg/l	JKM	-0.009	*	1	0.93	93	*	*
BARIUM-ICP	mg/l	JKM	0.006	*	1.02	0.991	97	*	*
BERYLLIUM-ICP	mg/l	JKM	0	*	1.26	1.34	106	*	*
CALCIUM-ICP	mg/l	JKM	0.008	*	10.1	8.9	88	*	*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	1.04	104	*	*
CHROMIUM-ICP	mg/l	JKM	-0.001	*	1.02	1.083	106	*	*
COPPER-ICP	mg/l	JKM	0.002	*	1.02	1.003	98	*	*
IRON-ICP	mg/l	JKM	0.001	*	1.04	1.03	99	*	*
MAGNESIUM-ICP	mg/l	JKM	0.033	*	10	10.22	102	*	*
NICKEL-ICP	mg/l	JKM	-0.001	*	1	1.057	106	*	*
SODIUM-ICP	mg/l	JKM	0.024	*	10.1	10.1	100	*	*
ZINC-ICP	mg/l	JKM	0.004	*	1	0.875	88	*	*
TPH	mg/l	WMW	0	*	25	19.5	78	*	*
OIL AND GREASE	mg/l	SMC	0.3	*	10	8.1	81	*	*

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JUL 12 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 7/10/89

## METHOD BLANK

## MATRIX/MEDIA SPIKE

Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec. (%)	UCLs (%)	LCLs (%)
MOLYBDENUM-ICP	mg/l	JKM	0.013	*	5	5.05	101	*	*
TITANIUM-ICP	mg/l	JKM	0.008	*	5	4.59	92	*	*
ALUMINUM-ICP	mg/l	JKM	-0.003	*	1	0.94	94	*	*
BARIUM-ICP	mg/l	JKM	0.006	*	1	0.976	98	*	*
CALCIUM-ICP	mg/l	JKM	-0.003	*	10.1	8.1	80	*	*
CADMIUM-ICP	mg/l	JKM	0.002	*	1	0.993	99	*	*
CHROMIUM-ICP	mg/l	JKM	0.001	*	1.02	1.045	102	*	*
IRON-ICP	mg/l	JKM	-0.011	*	1.04	0.9	87	*	*
MAGNESIUM-ICP	mg/l	JKM	-0.019	*	10	9.3	93	*	*
MANGANESE-ICP	mg/l	JKM	0.001	*	1.04	0.88	85	*	*
SODIUM-ICP	mg/l	JKM	0.015	*	10.1	8.3	82	*	*
ZINC-ICP	mg/l	JKM	0.002	*	1	0.852	85	*	*
TOTAL SOLIDS	mg/l	SMC	16	*	500	524	105	*	*
TDS	mg/l	SMC	-2	*	500	515	103	*	*
TSS	mg/l	JKM	-4	*	50	55	110	*	*
CYANIDE	mg/l	WAW	0.001	*	0.2	0.188	94	*	*

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JUL 12 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/06/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
MOLYBDENUM-ICP	mg/l	JKM	1	1.01	*	*	0.092	0.096	0.004	*
TITANIUM-ICP	mg/l	JKM	5	4.76	*	*	0.14	0.145	0.005	*
ALUMINUM-ICP	mg/l	JKM	1	1.1	1.307	0.881	0.012	0.007	0.005	*
BARIUM-ICP	mg/l	JKM	1.02	1	1.106	0.908	0	0.001	0.001	*
CALCIUM-ICP	mg/l	JKM	10.1	10.2	10.759	9.595	317.5	325	7.5	*
CADMIUM-ICP	mg/l	JKM	1	0.983	0.993	0.921	0	0	0	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.04	1.067	0.977	0	0.001	0.001	*
IRON-ICP	mg/l	JKM	1.04	1	1.134	0.96	0.004	0.011	0.007	*
MAGNESIUM-ICP	mg/l	JKM	10	10.1	11.114	9.752	134.25	135	0.75	*
MANGANESE-ICP	mg/l	JKM	1.04	1.06	1.083	1.023	0.001	0	0.001	*
SODIUM-ICP	mg/l	JKM	10.1	10	*	*	0.037	0.04	0.003	*
ZINC-ICP	mg/l	JKM	1	0.874	*	*	0.003	0.006	0.003	*
TOTAL SOLIDS	mg/l	SMC	500	506	527	477	488	494	6	*
TDS	mg/l	SMC	500	488	543	457	366	420	54	*
TSS	mg/l	JKM	50	55	59	43	3	<1	3	*
CYANIDE	mg/l	WMW	0.2	0.151	0.213	0.14	0.01	0.01	0	*

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JUL 12 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection



KEMRON Environmental Services

QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/06/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE			
			Known	Result	UCLx	LCLx	Result1	Result2	Range	UCLr
MOLYBDENUM-ICP	mg/l	JKM	1	1.01	*	*	0.092	0.096	0.004	*
TITANIUM-ICP	mg/l	JKM	5	4.76	*	*	0.14	0.145	0.005	*
ALUMINUM-ICP	mg/l	JKM	1	1.1	1.307	0.881	3.012	0.007	0.005	*
BARIUM-ICP	mg/l	JKM	1.02	1	1.106	0.908	0	0.001	0.001	*
CALCIUM-ICP	mg/l	JKM	10.1	10.2	10.759	9.595	317.5	325	7.5	*
CADMIUM-ICP	mg/l	JKM	1	0.983	0.993	0.921	0	0	0	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.04	1.067	0.977	0	0.001	0.001	*
IRON-ICP	mg/l	JKM	1.04	1	1.134	0.96	0.004	0.011	0.007	*
MAGNESIUM-ICP	mg/l	JKM	10	10.1	11.114	9.752	134.25	135	0.75	*
MANCANESE-ICP	mg/l	JKM	1.04	1.06	1.033	1.023	0.001	0	0.001	*
SODIUM-ICP	mg/l	JKM	10.1	10	*	*	0.037	0.04	0.003	*
ZINC-ICP	mg/l	JKM	1	0.874	*	*	0.003	0.006	0.003	*
TOTAL SOLIDS	mg/l	SMC	500	506	527	477	488	494	6	*
TDS	mg/l	SMC	500	488	513	457	366	420	54	*
TSS	mg/l	JKM	50	55	59	43	3	<1	3	*
CYANIDE	mg/l	WMW	0.2	0.151	0.213	0.14	0.01	0.01	0	*

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OHIO EPA

JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)  
LCLx = Lower Control Limit (Standard)  
UCLr = Upper Control Limit (Range)  
\* = Initial Data Collection

KEMRON Environmental Services

QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/06/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
MOLYBDENUM-ICP	mg/l	JKM	1	1.01	*	*	0.002	0.006	0.004	*
TITANIUM-ICP	mg/l	JKM	5	4.76	*	*	0.14	0.145	0.005	*
ALUMINUM-ICP	mg/l	JKM	1	1.1	1.307	0.881	0.012	0.007	0.005	*
BARIUM-ICP	mg/l	JKM	1.02	1	1.106	0.908	0	0.001	0.001	*
CALCIUM-ICP	mg/l	JKM	10.1	10.2	10.759	9.595	317.5	325	7.5	*
CADMIUM-ICP	mg/l	JKM	1	0.983	0.993	0.921	0	0	0	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.04	1.067	0.977	0	0.001	0.001	*
IRON-ICP	mg/l	JKM	1.04	1	1.134	0.96	0.004	0.011	0.007	*
MAGNESIUM-ICP	mg/l	JKM	10	10.1	11.114	9.752	134.25	135	0.75	*
MANGANESE-ICP	mg/l	JKM	1.04	1.06	1.033	1.023	0.001	0	0.001	*
SODIUM-ICP	mg/l	JKM	10.1	10	*	*	0.037	0.04	0.003	*
ZINC-ICP	mg/l	JKM	1	0.874	*	*	0.003	0.006	0.003	*
TOTAL SOLIDS	mg/l	SMC	500	506	527	477	488	494	6	*
TDS	mg/l	SMC	500	488	543	457	366	420	54	*
TSS	mg/l	JKM	50	55	59	43	3	<1	3	*
CYANIDE	mg/l	WMV	0.2	0.151	0.213	0.14	0.01	0.01	0	*

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/27/89

Parameter	METHOD BLANK			MATRIX/MEDIA SPIKE					
	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
MOLYBDENUM-ICP	mg/l	JKM	0.012	*	1	1.008	101	*	*
LEAD-FURNACE	mg/l	RSL	0.002	*	0.051	0.042	82	*	*
CYANIDE	mg/l	DIH	0.001	*	0.2	0.159	80	*	*
TIN-FURNACE	mg/l	JKM	0	*	0.05	0.054	108	*	*
ALUMINUM-ICP	mg/l	JKM	-0.005	*	1	1	100	*	*
ANTIMONY-ICP	mg/l	JKM	0.011	*	1	0.904	90	*	*
BARIUM-ICP	mg/l	JKM	-0.004	*	1.02	0.865	85	*	*
BERYLLIUM-ICP	mg/l	JKM	0	*	1.26	1.21	96	*	*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	0.922	92	*	*
CHROMIUM-ICP	mg/l	JKM	0	*	1.02	0.971	95	*	*
COPPER-ICP	mg/l	JKM	0	*	1.02	0.906	89	*	*
IRON-ICP	mg/l	JKM	-0.001	*	1.04	1.013	97	*	*
NICKEL-ICP	mg/l	JKM	-0.007	*	1	0.961	96	*	*
SILVER-ICP	mg/l	JKM	-0.001	*	0.2	0.179	90	*	*
ZINC-ICP	mg/l	JKM	0.004	*	1	0.849	85	*	*
TSS	mg/l	SMC	-4	*	50	52	104	*	*
TDS	mg/l	SMC	2	*	500	490	98	*	*

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JUL 26 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/26/89

Parameter	Units	Analyst	REFERENCE STANDARD			DUPLICATE SAMPLE				
			Known	Result	UCLx	LCLx	Result1	Result2	Range	UCLr
HARDNESS	mg/l	SMC	100	101	102	98.7	680	690	10	*

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JUL 26 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)  
LCLx = Lower Control Limit (Standard)  
UCLr = Upper Control Limit (Range)  
\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/26/89

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			METHOD BLANK		MATRIX/MEDIA SPIKE				
Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
HARDNESS	mg/l	SMC	0	*	50	49	98	*	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

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UCLb = Upper Control Limit (Blank)  
UCLs = Upper Control Limit (Spike Recovery)  
LCLs = Lower Control Limit (Spike Recovery)  
\* = Initial Data Collection

KEMRON Environmental Services  
QUALITY ASSURANCE DAILY REPORT

Date: 06/22/89

Laboratory: Ohio Valley

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
BROMIDE	mg/l	DIH	40	41.5	*	*	1	1	0	*
TOC	mg/l	DIH	50	46.1	53.4	46.4	16	15	1	*
COD	mg/l	DIH	64	57.1	76.8	51.2	1	1	0	*
FLUORIDE	mg/l	DIH	2	2.03	2.25	1.88	0.3	0.3	0	*
AMMONIA	mg/l	WMW	10	9.9	10.7	9.2	1	1	0	*
MERCURY-CV	mg/l	JKM	0.01	0.0107	0.013	0.007	0.0002	0.0002	0	*
ALUMINUM-ICP	mg/l	JKM	1	1.01	1.34	0.983	5.82	6.04	0.22	*
BARIUM-ICP	mg/l	JKM	1.02	0.971	*	*	0.138	0.138	0	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.24	*	*	0	0.006	0.006	*
CALCIUM-ICP	mg/l	JKM	10.1	9.99	10.7	9.71	63.8	61.4	2.4	*
CADMIUM-ICP	mg/l	JKM	1	0.938	*	*	0	0.006	0.006	*
CHROMIUM-ICP	mg/l	JKM	1.02	1	*	*	0.014	0.014	0	*
COPPER-ICP	mg/l	JKM	1.04	1.01	1.24	0.972	14.3	14.2	0.1	*
IRON-ICP	mg/l	JKM	10	10.3	11	9.93	15.56	14.82	0.74	*
MAGNESIUM-ICP	mg/l	JKM	1	0.971	*	*	0.0064	0.0066	0.0002	*
NICKEL-ICP	mg/l	JKM	10.1	10	*	*	37.4	36.8	0.6	*
SODIUM-ICP	mg/l	JKM	1	0.833	*	*	0.61	0.544	0.066	*
ZINC-ICP	mg/l	WMW	100	99.1	*	*	4000	3300	700	*
TPH	mg/l	SMC	10	8.9	10.2	8.4	8.1	8.9	0.8	*
OIL AND GREASE										

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JUL 26 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)  
LCLx = Lower Control Limit (Standard)  
UCLr = Upper Control Limit (Range)  
\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/22/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
BROMIDE	mg/l	DIH	1	*	16	17.6	110	*	*
TOC	mg/l	DIH	0.2	*	25	18.3	73	*	*
COD	mg/l	DIH	1	*	32	27.1	85	*	*
FLUORIDE	mg/l	DIH	0.05	*	0.4	0.4	100	*	*
AMMONIA	mg/l	WMW	0	*	10	10	100	*	*
MERCURY-CV	mg/l	JKM	0	*	0.01	0.0097	97	*	*
ALUMINUM-ICP	mg/l	JKM	-0.009	*	1	0.93	93	*	*
BARIUM-ICP	mg/l	JKM	0.006	*	1.02	0.991	97	*	*
BERYLLIUM-ICP	mg/l	JKM	0	*	1.26	1.34	106	*	*
CALCIUM-ICP	mg/l	JKM	0.008	*	10.1	8.9	88	*	*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	1.04	104	*	*
CHROMIUM-ICP	mg/l	JKM	-0.001	*	1.02	1.083	106	*	*
COPPER-ICP	mg/l	JKM	0.002	*	1.02	1.003	98	*	*
IRON-ICP	mg/l	JKM	0.001	*	1.04	1.03	99	*	*
MAGNESIUM-ICP	mg/l	JKM	0.033	*	10	10.22	102	*	*
NICKEL-ICP	mg/l	JKM	-0.001	*	1	1.057	106	*	*
SODIUM-ICP	mg/l	JKM	0.024	*	10.1	10.1	100	*	*
ZINC-ICP	mg/l	JKM	0.004	*	1	0.875	88	*	*
TPH	mg/l	WMW	0	*	25	19.5	78	*	*
OIL AND GREASE	mg/l	SMC	0.3	*	10	8.1	81	*	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/21/89

Parameter	Units	Analyst	REFERENCE STANDARD			DUPLICATE SAMPLE			Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
SELENIUM-VH	mg/l	JKM	0.05	0.0505	0.058	0.04	0.0001	0.0003	0.0002	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.24	*	*	0.001	0.001	0	*
SULFATE	mg/l	WMW	20	22	25.3	16.2	74	70	4	*
CADMIUM-ICP	mg/l	JKM	1	0.965	*	*	0.001	0.001	0	*
ARSENIC-VH	mg/l	JKM	0.051	0.0477	*	*	0.0088	0.0103	0.0015	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.04	*	*	0.028	0.025	0.003	*
LEAD-ICP	mg/l	JKM	1.02	1	*	*	0.053	0.059	0.006	*
COPPER-ICP	mg/l	JKM	1.02	0.992	*	*	0.422	0.415	0.007	*
ANTIMONY-ICP	mg/l	JKM	1	1	1.137	0.909	0.009	-0.004	0.013	*
IRON-ICP	mg/l	JKM	1.04	1.01	1.24	0.972	0.388	0.31	0.078	*
PHENOLICS	mg/l	DIH	0.5	0.506	0.55	0.451	4	4.5	0.5	*
NICKEL-ICP	mg/l	JKM	1	0.979	*	*	0.056	0.052	0.004	*
ALUMINUM-ICP	mg/l	JKM	1	1.08	1.34	0.983	10.694	10.125	0.569	*
THALLIUM-FURNACE	mg/l	JKM	0.05	0.051	*	*	-0.0022	-0.002	0.00022	*
BARIUM-ICP	mg/l	JKM	1.02	0.981	*	*	0.127	0.136	0.009	*
SILVER-ICP	mg/l	JKM	0.2	0.172	*	*	0	0.002	0.002	*
ZINC-ICP	mg/l	JKM	1	0.858	*	*	0.469	0.445	0.024	*
BOD	mg/l	SMC	200	197	237	167	<3	<3	0	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection



## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/21/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
SELENIUM-VH	mg/l	JKM	-0.0001	*	0.05	0.0495	99	*	*
BERYLLIUM-ICP	mg/l	JKM	0	*	1.26	1.169	93	*	*
SULFATE	mg/l	WMW	2	*	10	12.9	129	*	*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	0.885	89	*	*
ARSENIC-VH	mg/l	JKM	0.0001	*	0.051	0.0513	101	*	*
CHROMIUM-ICP	mg/l	JKM	0.001	*	1.02	0.975	96	*	*
LEAD-ICP	mg/l	JKM	0.008	*	1.02	1.004	98	*	*
COPPER-ICP	mg/l	JKM	0.001	*	1.02	0.99	97	*	*
ANTIMONY-ICP	mg/l	JKM	-0.004	*	1	0.923	92	*	*
IRON-ICP	mg/l	JKM	-0.001	*	1.04	0.9	87	*	*
PHENOLICS	mg/l	DIH	0.001	*	0.5	0.474	95	*	*
NICKEL-ICP	mg/l	JKM	-0.011	*	1	0.928	93	*	*
ALUMINUM-ICP	mg/l	JKM	0.023	*	1	0.916	92	*	*
THALLIUM-FURNACE	mg/l	JKM	0	*	0.05	0.038	76	*	*
BARIUM-ICP	mg/l	JKM	0.004	*	1.02	0.924	91	*	*
SILVER-ICP	mg/l	JKM	-0.003	*	0.2	0.169	85	*	*
ZINC-ICP	mg/l	JKM	0.006	*	1	0.75	75	*	*
BOD	mg/l	SMC	0.4	*	200	189	95	*	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/27/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE			
			Known	Result	UCLx	LCLx	Result1	Result2	Range	UCLr
MOLYBDENUM-ICP	mg/l	JKM	5	5.05	*	*	0.022	0.001	0.021	*
LEAD-FURNACE	mg/l	RSL	0.051	0.055	*	*	0.00444	0.002	0.00244	*
CYANIDE	mg/l	DIH	0.2	0.184	0.213	0.14	0.01	0.01	0	*
TIN-FURNACE	mg/l	JKM	0.05	0.055	*	*	0	0	0	*
ALUMINUM-ICP	mg/l	JKM	1	1.02	1.34	0.983	0.01	0.009	0.001	*
ANTIMONY-ICP	mg/l	JKM	1	0.978	1.137	0.909	-0.001	-0.002	0.001	*
BARIUM-ICP	mg/l	JKM	1.02	0.962	*	*	0.048	0.047	0.001	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.25	*	*	0	0	0	*
CADMIUM-ICP	mg/l	JKM	1	0.972	*	*	0	0	0	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.03	*	*	0.002	0.002	0	*
COPPER-ICP	mg/l	JKM	1.02	0.995	*	*	0.004	0.002	0.002	*
IRON-ICP	mg/l	JKM	1.04	1.04	1.24	0.972	0.024	0.02	0.004	*
NICKEL-ICP	mg/l	JKM	1	0.999	*	*	0.028	0.026	0.002	*
SILVER-ICP	mg/l	JKM	0.2	0.175	*	*	0.001	-0.005	0.006	*
ZINC-ICP	mg/l	JKM	1	0.885	*	*	0.017	0.013	0.004	*
TSS	mg/l	SMC	50	56	59	43	5	5	0	*
TDS	mg/l	SMC	500	502	543	457	360	370	10	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

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Received: 07/07/89

KEMRON  
07/20/89 08:25:55

REPORT

Work Order # M9-0,-081

REPORT Ohio EPA DSHWM  
TO 1800 Watermark Dr.  
P.O. Box 1049  
Columbus, OH 43266-0149  
ATTEN Susan Buchanan

PREPARED KEMRON ENVIRONMENTAL SERVICES  
BY 109 STARLITE PARK  
MARIETTA, OHIO 45750

*David H. Adnick*  
CERTIFIED BY

ATTEN  
PHONE (614) 373-4071

CONTACT H. BUSKIRK

CLIENT OEPA 56664 SAMPLES 4  
COMPANY Ohio EPA  
FACILITY 1800 Watermark Dr.  
Columbus, Ohio 43266-0149

ALL WORK PERFORMED IN ACCORDANCE WITH STANDARD METHODOLOGY.

WORK ID American Steel Found/K8907061  
TAKEN  
TRANS  
TYPE  
P.O. # 308731/113088  
INVOICE under separate cover

TEST CODES and NAMES used on this report

SAMPLE IDENTIFICATION

01 ASF100LF  
02 ASF101LF  
03 ASF102LF  
04 ASF103LF

EP MET EP Toxicity Metals

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JUL 24 1989

DIV. of SOLID & HAZ. WASTE MGT.

**Kemron**  
KEMRON ENVIRONMENTAL SERVICES, LLC

Received: 07/07/89

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REPORT

Work Order # M9-07-081

## Results by Sample

SAMPLE ID ASF100LF K8907061 FRACTION 01A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/30/89 13:50:00 Category SOLID

## EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.97	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	NA	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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JUL 24 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

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Received: 07/07/89

KEMRON REPORT  
Results by Sample

Work Order # M9-07-.81

SAMPLE ID ASF101LF K8907061 FRACTION 02A TEST CODE EP\_MET NAME EP Toxicity Metals  
Date & Time Collected 06/30/89 14:00:00 Category SOLID

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.20	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	NA	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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DIV. of SOLID & HAZ. WASTE MGT.

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Received: 07/07/89

KEMRON REPORT  
Results by Sample

Work Order # M9-07-081

SAMPLE ID ASF102LF K8907061 FRACTION 03A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/30/89 14:10:00 Category SOLID

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.39	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	NA	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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DIV. of SOLID & HAZ. WASTE MGT.



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Received: 07/07/89

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REPORT

Work Order # M9-07-081

Results by Sample

SAMPLE ID ASF103LF K8907061

FRACTION 04A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/30/89 14:20:00 Category SOLID

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.07	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	NA	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON ENVIRONMENTAL SERVICES

Work Order # M9-07- 1

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REPORT

Test Methodology

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Received: 07/07/89

EST CODE EP MET NAME EP Toxicity Metals

PA Method 1310 (SW-846)

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KEMRON ENVIRONMENTAL SERVICES



## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/18/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
TIN-AA	mg/l	JKM	10	9.33	*	*	-1.167	-1.14	0.027	*
CHLORIDE	mg/l	WMM	20	20.5	21.5	19.3	84	84	0	*
CADMIUM-ICP	mg/l	JKM	1	0.907	0.993	0.921	-0.002	-0.002	0	*
CHROMIUM-ICP	mg/l	JKM	1.02	0.988	1.067	0.977	0.005	0.003	0.002	*
BARIUM-ICP	mg/l	JKM	1.02	1	1.106	0.908	0.214	0.197	0.017	*
SILVER-ICP	mg/l	JKM	0.2	0.17	*	*	-0.001	0	0.001	*
LEAD-ICP	mg/l	JKM	1.02	0.992	*	*	0.004	0	0.004	*

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JUL 24 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/18/89

Parameter	METHOD BLANK				MATRIX/MEDIA SPIKE				
	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
TIN-AA	mg/l	JKM	0.15	*	10	11.14	111	*	*
CHLORIDE	mg/l	WMW	0	*	20	21.5	108	*	*
CADMIUM-ICP	mg/l	JKM	-0.001	*	1	0.992	99	*	*
CHROMIUM-ICP	mg/l	JKM	0	*	1.02	0.965	95	*	*
BARIUM-ICP	mg/l	JKM	-0.001	*	1.02	1.01	99	*	*
SILVER-ICP	mg/l	JKM	0	*	0.2	0.189	95	*	*
LEAD-ICP	mg/l	JKM	0.003	*	1.02	1.125	110	*	*

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JUL 24 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/19/89

Parameter	Units	Analyst	REFERENCE STANDARD			DUPLICATE SAMPLE			Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
SELENIUM-VH	mg/l	JKM	0.05	0.0512	0.06	0.042	0.0006	0.0001	0.0005	*
TPH	mg/l	MET	100	101	*	*	1300	1300	0	*
ARSENIC-VH	mg/l	JKM	0.051	0.0495	0.057	0.045	0.0037	0.0033	0.0004	*
CADMIUM-ICP	mg/l	JKM	1	0.989	0.993	0.921	0	0	0	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.04	1.007	0.977	0.025	0.021	0.004	*
BARIUM-ICP	mg/l	JKM	1.02	1.01	1.106	0.908	1.05	0.973	0.077	*
SILVER-ICP	mg/l	JKM	0.2	0.172	*	*	0.009	-0.003	0.012	*
LEAD-ICP	mg/l	JKM	1.02	1.1	*	*	0.046	0.058	0.012	*
MERCURY-CV	mg/l	JKM	0.01	0.0096	0.013	0.007	0.0003	0.0002	0.0001	*
PHENOLICS	mg/l	DIH	0.05	0.054	0.067	0.04	0.13	0.11	0.02	*
LEAD-FURNACE	mg/l	JKM	0.051	0.049	*	*	0.006	0.009	0.003	*

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JUL 24 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

KEMRON Environmental Services  
 QUALITY ASSURANCE DAILY REPORT

Date: 07/19/89

Laboratory: Ohio Valley

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec. (%)	UCLs (%)	LCLs (%)
SELENIUM-VH	mg/l	JKM	0.0002	*	0.05	0.0435	87	*	*
TPH	mg/l	MET	0	*	25	25.5	102	*	*
ARSENIC-VH	mg/l	JKM	0.0002	*	0.051	0.0472	93	*	*
CADMIUM-ICP	mg/l	JKM	0	*	1	1.05	105	*	*
CHROMIUM-ICP	mg/l	JKM	0.002	*	1.02	1.07	105	*	*
BARIUM-ICP	mg/l	JKM	0.003	*	1.02	0.903	89	*	*
SILVER-ICP	mg/l	JKM	0.001	*	0.2	0.195	98	*	*
LEAD-ICP	mg/l	JKM	0.004	*	1.02	1.12	110	*	*
MERCURY-CV	mg/l	JKM	0.0001	*	0.01	0.0093	93	*	*
PHENOLICS	mg/l	DIH	0.001	*	0.5	0.533	107	*	*
LEAD-FURNACE	mg/l	JKM	0.0005	*	0.051	0.041	80	*	*

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JUL 24 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

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Received: 06/14/89

KEMRON REPORT  
07/17/89 15:03:28

Work Order # M9-06-166

REPORT Ohio EPA DSHWM  
TO 1800 Watermark Dr.  
P.O. Box 1049  
Columbus, OH 43266-0149  
ATTEN Susan Buchanan

PREPARED KEMRON ENVIRONMENTAL SERVICES  
BY 109 STARLITE PARK  
MARIETTA, OHIO 45750

*[Signature]*  
CERTIFIED BY

ATTEN  
PHONE (614) 373-4071

CONTACT H BUSKIRK

CLIENT OEPA 56664 SAMPLES 4  
COMPANY Ohio EPA  
FACILITY 1800 Watermark Dr.  
Columbus, Ohio 43266-0149

ALL WORK PERFORMED IN ACCORDANCE WITH STANDARD METHODOLOGY.

\* Analysis performed on Ohio EPA DI EP-Toxicity Leachate  
(Phenol, CN, F)

WORK ID K890613-2/ American Steel  
TAKEN  
TRANS  
TYPE  
P.O. # 8731/113088  
INV. # 500915

SAMPLE IDENTIFICATION

01 ASF 001 K890613-2  
02 ASF 002 K890613-2  
03 ASF 007 K890613-2  
04 ASF 008 K890613-2

TEST CODES and NAMES used on this report

AG Silver, Total  
AS Arsenic, Total  
BA Barium, Total  
CD Cadmium, Total  
CN Cyanide, Total  
CR Chromium, Total  
EP\_MET EP Toxicity Metals  
F Fluoride  
HG Mercury, Total  
M8240 Volatile Organics  
PB\_FU Lead, Total  
PHENOL Phenolics, Total  
SE Selenium, Total

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JUL 21 1989

DIV. of SOLID & HAZ. WASTE MGT.



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KEMRON

REPORT

Work Order # M9-06-166

Results by Sample

SAMPLE ID <u>ABF 001</u>		<u>K890613-2</u>		SAMPLE # <u>01</u>		FRACTIONS: <u>A,B</u>		Date & Time Collected <u>06/09/89 12:08:00</u>		Category <u>WATER</u>	
AG	<u>&lt;0.01</u> mg/l Ag	AS	<u>0.01</u> mg/l As	BA	<u>0.86</u> mg/l Ba	CD	<u>&lt;0.01</u> mg/l Cd	CR	<u>&lt;0.02</u> mg/l Cr	HG	<u>&lt;0.0005</u> mg/l Hg
PB_FU	<u>0.067</u> mg/l Pb	SE	<u>&lt;0.004</u> mg/l Se								

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON REPORT  
Results by Sample

Work Order # M9-06-166

SAMPLE ID ABF 001 K890613-2 FRACTION 01A TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 12:08:00 Category WATER

ANALYST: FSA  
INSTRMT: FINN2

FILE #: 20E7197  
INJECTD: 06/15/89 FACTOR: 1 UNITS: ug/L VERIFIED: DMD

CAS#	COMPOUND	RESULT	DET LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene chloride	BDL	5
67-64-1	Acetone	BDL	10
75-15-0	Carbon disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
540-59-0	1,2-Dichloroethene (total)	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	10
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon tetrachloride	BDL	5
108-05-4	Vinyl acetate	BDL	10
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
110-75-8	2-Chloroethyl vinyl ether	BDL	10
75-25-2	Bromoform	BDL	5
591-78-6	2-Hexanone	BDL	10
108-10-1	4-Methyl-2-pentanone	BDL	10
127-18-4	Tetrachloroethene	BDL	5

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JUL 21 1989

DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON REPORT  
Results by Sample

Work Order # M9-06-166  
Continued From Above

SAMPLE ID ASF 001 K890613-2 FRACTION 01A TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 12:08:00 Category WATER

CAS#	COMPOUND	RESULT	DET LIMIT
108-88-3	Toluene	BDL	5
79-34-5	1,1,2,2,-Tetrachloroethane	BDL	5
108-90-7	Chlorobenzene	8	5
100-41-4	Ethyl benzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (Total)	12	5

SURROGATES	
1,2-Dichloroethane-d4	<u>97</u> % Recovery
Toluene-d8	<u>98</u> % Recovery
p-Bromofluorobenzene	<u>93</u> % Recovery

NOTES AND DEFINITIONS FOR THIS REPORT  
DET LIMIT = DETECTION LIMIT  
BDL = BELOW DETECTION LIMIT  
\* = SEMI-QUANTITATIVE SCREEN ONLY

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DIV. of SOLID & HAZ. WASTE MGT.





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REPORT

## Results by Sample

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SAMPLE ID	ASF 002	K890613-2	SAMPLE #	02	FRACTIONS:	A,B	Date & Time Collected	06/09/89 12:29:00	Category	WATER	
AG	<0.01	AS	0.02	BA	0.30	CD	0.01	CR	0.2	HG	0.001
	mg/l Ag		mg/l As		mg/l Ba		mg/l Cd		mg/l Cr		mg/l Hg
PB_FU	0.03	SE	<0.004								
	mg/l Pb		mg/l Se								

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Received: 06/14/89

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REPORT

Work Order # M9-00-166

## Results by Sample

SAMPLE ID ASF 002

K890613-2

FRACTION 02A

TEST CODE M8240

NAME Volatile Organics

Date &amp; Time Collected 06/09/89 12:29:00

Category WATER

ANALYST: JLJ  
INSTRMT: FINN2FILE #: 20E7199  
INJECTD: 06/15/89 FACTOR:

1 UNITS: ug/L VERIFIED: DMD

CAS#	COMPOUND	RESULT	DET LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene chloride	BDL	5
67-64-1	Acetone	490000	10
75-15-0	Carbon disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
540-59-0	1,2-Dichloroethene (total)	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	10
78-93-3	2-Butanone	BDL	5
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon tetrachloride	BDL	10
108-05-4	Vinyl acetate	BDL	5
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	10
110-75-8	2-Chloroethyl vinyl ether	BDL	5
75-25-2	Bromoform	BDL	10
591-78-6	2-Hexanone	BDL	10
108-10-1	4-Methyl-2-pentanone	BDL	5
127-18-4	Tetrachloroethene	BDL	

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DIV. of SOLID &amp; HAZ. WASTE MGT


  
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KEMRON  
REPORT  
Results by Sample

Work Order # M9-06 .66  
Continued From Above

SAMPLE ID ASF 002

K890613-2

FRACTION 02A

TEST CODE M8240

NAME Volatile Organics

Date & Time Collected 06/09/89 12:29:00

Category WATER

CAS#	COMPOUND	RESULT	DET LIMIT
108-88-3	Toluene	BDL	5
79-34-5	1,1,2,2,-Tetrachloroethane	BDL	5
108-90-7	Chlorobenzene	15	5
100-41-4	Ethyl benzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (Total)	BDL	5

SURROGATES	
1,2-Dichloroethane-d4	85 % Recovery
Toluene-d8	94 % Recovery
p-Bromofluorobenzene	78 % Recovery

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DIV. of SOLID & HAZ. WASTE MGT.

NOTES AND DEFINITIONS FOR THIS REPORT  
DET LIMIT = DETECTION LIMIT  
BDL = BELOW DETECTION LIMIT  
\* = SEMI-QUANTITATIVE SCREEN ONLY

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REPORT

Results by Sample

Work Order # M9-06-166

SAMPLE ID ASF 007 K890613-2 SAMPLE # 03 FRACTIONS: A  
Date & Time Collected 06/09/89 14:00:00 Category SOLID

CN <0.01 \* F 0.3 \* PHENOL <0.001 \*  
mg/l CN mg/l F mg/l Phenol

\*Analysis performed on Ohio EPA DI EP-Toxicity Leachate.

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DIV. of SOLID & HAZ. WASTE MGT

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REPORT  
Results by Sample

Work Order # M9-06 56

SAMPLE ID ABF 007

K890613-2

FRACTION 03A

TEST CODE EP MET NAME EP Toxicity Metals

Date & Time Collected 06/09/89 14:00:00

Category SOLID

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.18	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	<0.001	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON  
Results by Sample

Work Order # M9-0 166

SAMPLE ID	ASF 008	K890613-2	SAMPLE #	04	FRACTIONS:	A	
Date & Time Collected			06/09/89 14:15:00			Category	SOLID
CN	<0.01 *	F	0.2 *	PHENOL	<0.001 *		
mg/l CN		mg/l F		mg/l Phenol			

\*Analysis performed on Ohio EPA DI EP-Toxicity Leachate.

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON REPORT  
Results by Sample

Work Order # M9-00-166

SAMPLE ID ASF 008 K890613-2 FRACTION 04A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/09/89 14:15:00 Category SOLID

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.1	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	<0.001	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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DIV. of SOLID & HAZ. WASTE MGT.

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REPORT

Test Methodology

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TEST CODE AG NAME Silver, Total  
EPA Method 200.7 (ICP) or 272.1 (AA - Direct Aspiration)

TEST CODE AS NAME Arsenic, Total  
EPA Method 206.3 (AA Vapor Hydride)

TEST CODE BA NAME Barium, Total  
EPA Method 200.7 - (ICAP) or 208.1 (AA - Direct Aspiration)

TEST CODE CD NAME Cadmium, Total  
EPA Method 200.7 (ICP) or 213.1 (AA - Direct Aspiration)

TEST CODE CN NAME Cyanide, Total  
EPA Method 335.2 Reflux, Spectrophotometric, Titrimetric

TEST CODE CR NAME Chromium, Total  
EPA Method 200.7 (ICP) or 218.1 (AA - Direct Aspiration)

TEST CODE EP MET NAME EP Toxicity Metals  
EPA Method 1310 (SW-846)

TEST CODE F NAME Fluoride  
EPA Method 340.2 Fluoride Electrode

TEST CODE HG NAME Mercury, Total  
EPA Method 245.1 (Cold Vapor)

TEST CODE M8240 NAME Volatile Organics  
EPA Method 8240 Volatile Organics - Purge and Trap

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DIV. of SOLID &amp; HAZ. WASTE MGT.

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KEMRON  
REPORT  
Test Methodology

Work Order # M9-06-166

TEST CODE PB\_FU NAME Lead, Total

EPA Method 239.2 AA Graphite Furnace

TEST CODE PHENOL NAME Phenolics, Total

EPA Method 420.1 Spectrophotometric Manual 4-AAP  
with distillation

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON ENVIRONMENTAL SERVICES

## CHAIN-OF-CUSTODY RECORD

Turn Around Requirements:

30 DAYS

Project No.: Project Name:

K890613-2 AMERICAN STEEL FOUNDRIES

Sampler (print):

K. Bonzo

Signature:

Kevin Bonzo

Sample I.D. No.	Comp	Grab	Date	Time	Sample Location
ASF001		X	6/9/89	12:08	BASE FILL AREA
ASF002		X	"	12:29	BASE FILL AREA
ASF007		X	"	14:00	TOP FILL AREA
ASF008		X	"	14:15	TOP FILL AREA

NUMBER OF  
SAMPLES% SOLIDS  
VOA

ACID EXTRACT.

BASE/NEUTR. EXT.

EP TOX.-METALS

EP TOX.-METALS

TOT. METALS-ORGAN.

TOT. METALS-PPL.

PCBs

PESTICIDES

PHCs

PHENOL

E.P. TOX. METALS

D.I. EXTRACT.

PHENOLS

CYANIDES

FLUORIDES

ADDITIONAL  
REQUIREMENTSRECEIVED  
OHIO EPA

JUL 21 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

Relinquished by:  
(Signature)

Kevin Bonzo

Date

4/13/89

Time

14:50

Received by:  
(Signature)

[Signature]

Relinquished by:  
(Signature)

Date

Time

Received for Laboratory  
by: (Signature)Relinquished by:  
(Signature)

Date

Time

Remarks:

Samples rec. in good cond.  
w/ seal intact

Date

Time

Received by:  
(Signature)

White - Lab

Yellow - Office

Pink - Field

Page

of

1

VOSP  
See Enclosure  
Sheets

KEMRON Environmental Services  
QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/08/89

Parameter	Units	Analyst	REFERENCE STANDARD			DUPLICATE SAMPLE			Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
PHENOLICS	mg/l	PNW	0.05	0.053	0.067	0.04	0.001	0.001	0	*

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JUL 21 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)  
LCLx = Lower Control Limit (Standard)  
UCLr = Upper Control Limit (Range)  
\* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/08/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec. (%)	UCLs (%)	LCLs (%)
PHENOLICS	mg/l	PNW	0.001	*	0.5	0.485	97	*	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/06/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
MOLYBDENUM-ICP	mg/l	JKM	1	1.01	*	*	0.092	0.096	0.004	*
TITANIUM-ICP	mg/l	JKM	5	4.76	*	*	0.14	0.145	0.005	*
ALUMINUM-ICP	mg/l	JKM	1	1.1	1.307	0.881	0.012	0.007	0.005	*
BARIUM-ICP	mg/l	JKM	1.02	1	1.106	0.908	0	0.001	0.001	*
CALCIUM-ICP	mg/l	JKM	10.1	10.2	10.759	9.595	317.5	325	7.5	*
CADMIUM-ICP	mg/l	JKM	1	0.983	0.993	0.921	0	0	0	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.04	1.067	0.977	0	0.001	0.001	*
IRON-ICP	mg/l	JKM	1.04	1	1.134	0.96	0.004	0.011	0.007	*
MAGNESIUM-ICP	mg/l	JKM	10	10.1	11.114	9.752	134.25	135	0.75	*
MANGANESE-ICP	mg/l	JKM	1.04	1.06	1.083	1.023	0.001	0	0.001	*
SODIUM-ICP	mg/l	JKM	10.1	10	*	*	0.037	0.04	0.003	*
ZINC-ICP	mg/l	JKM	1	0.874	*	*	0.003	0.006	0.003	*
TOTAL SOLIDS	mg/l	SMC	500	506	527	477	488	494	6	*
TDS	mg/l	SMC	500	488	543	457	366	420	54	*
TSS	mg/l	JKM	50	55	59	43	3	<1	3	*
CYANIDE	mg/l	WMW	0.2	0.151	0.213	0.14	0.01	0.01	0	*
OIL AND GREASE	mg/l	MET	10	10.6	10.2	8.4	10	7.9	2.1	*

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JUL 21 1989

DIV of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Date: 07/06/89

Laboratory: Ohio Valley

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
MOLYBDENUM-ICP	mg/l	JKM	0.013	*	5	5.05	101	*	*
TITANIUM-ICP	mg/l	JKM	0.008	*	5	4.59	92	*	*
ALUMINUM-ICP	mg/l	JKM	-0.003	*	1	0.94	94	*	*
BARIUM-ICP	mg/l	JKM	0.006	*	1	0.976	98	*	*
CALCIUM-ICP	mg/l	JKM	-0.003	*	10.1	8.1	80	*	*
CADMIUM-ICP	mg/l	JKM	0.002	*	1	0.993	99	*	*
CHROMIUM-ICP	mg/l	JKM	0.001	*	1.02	1.045	102	*	*
IRON-ICP	mg/l	JKM	-0.011	*	1.04	0.9	87	*	*
MAGNESIUM-ICP	mg/l	JKM	-0.019	*	10	9.3	93	*	*
MANGANESE-ICP	mg/l	JKM	0.001	*	1.04	0.88	85	*	*
SODIUM-ICP	mg/l	JKM	0.015	*	10.1	8.3	82	*	*
ZINC-ICP	mg/l	JKM	0.002	*	1	0.852	85	*	*
TOTAL SOLIDS	mg/l	SMC	16	*	500	524	105	*	*
TDS	mg/l	SMC	-2	*	500	515	103	*	*
TSS	mg/l	JKM	-4	*	50	55	110	*	*
CYANIDE	mg/l	WMW	0.001	*	0.2	0.188	94	*	*
OIL AND GREASE	mg/l	MET	0	*	10	7.9	79	*	*

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DIV of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/10/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec. (%)	UCLs (%)	LCLs (%)
STRONTIUM-AA	mg/l	JKM	0	*	1	0.956	96	*	*
CONDUCTIVITY	Us/cm	SMC	0.75	*	---	---	---	*	*
SODIUM-AA	mg/l	JKM	-0.1	*	10.1	10.2	101	*	*
POTASSIUM-AA	mg/l	JKM	0.0005	*	1.01	1.035	102	*	*
HARDNESS	mg/l	SMC	0	*	50	50	100	*	*
COD	mg/l	DIH	1	*	32	33.8	106	*	*
COLOR	units	DIH	5	*	10	10	100	*	*
FLUORIDE	mg/l	DIH	0.05	*	0.4	0.39	98	*	*
SULFATE	mg/L	WMW	2	*	10	11.9	119	*	*
CHLORIDE	mg/L	WMW	0.2	*	20	22	110	*	*
LEAD-FURNACE	mg/L	JKM	0.0005	*	0.051	0.048	94	*	*

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JUL 21 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/10/89

Parameter	Units	Analyst	REFERENCE STANDARD			DUPLICATE SAMPLE			
			Known	Result	UCLx	LCLx	Result1	Result2	Range UCLr
STRONTIUM-AA	mg/l	JKM	1	1.01	*	*	0.60111	0.591	0.01011 *
CONDUCTIVITY	Us/cm	SMC	1413	1391	1430	1390	1400	1400	0 *
SODIUM-AA	mg/l	JKM	10.1	9.5	*	*	108	113.7	5.7 *
POTASSIUM-AA	mg/l	JKM	1.01	1.057	*	*	0.082	0.0776	0.0044 *
HARDNESS	mg/l	SMC	100	102	102	98.7	2.4	2.4	0 *
COD	mg/l	DIH	320	322	353	285	---	---	---
COLOR	units	DIH	20	20	20	20	5	5	0 *
FLUORIDE	mg/l	DIH	2	2.1	2.25	1.88	0.2	0.2	0 *
SULFATE	mg/L	WMW	20	18	25.3	16.2	---	---	0 *
CHLORIDE	mg/L	WMW	20	22.5	21.2	19.3	31	31	0 *
LEAD-FURNACE	mg/L	JKM	0.051	0.051	*	*	0.03	0.04	0.01 *

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JUL 21 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection





EMRC ENVIRONMENTAL SERVICES

## CHAIN-OF-CUSTODY RECORD

Turn Around Requirements:

30 DAYS

Page

of

Project No.:

Project Name:

890714 AMERICAN STEEL FOUNDRIES

Sampler (print):

KIM COLE

Signature:

Kim Cole/SH

Evin 130120

Kevin Brown

Sample  
I.D. No.

Comp

Grab

Date

Time

Sample Location

NUMBER OF  
SAMPLES% SOLIDS  
VOA

ACID EXTRACT.

BASE/NEUTR. EXT.

EP TOX-METALS

EP TOX-ORGAN.

TOT. METALS-PPL.

PCBs

PESTICIDES

PHCs

PHENOL

ADDITIONAL  
REQUIREMENTS

Sample I.D. No.	Comp	Grab	Date	Time	Sample Location	NUMBER OF SAMPLES	% SOLIDS VOA	ACID EXTRACT.	BASE/NEUTR. EXT.	EP TOX-METALS	EP TOX-ORGAN.	TOT. METALS-PPL.	PCBs	PESTICIDES	PHCs	PHENOL	ADDITIONAL REQUIREMENTS
891001F	X		4/30/89	13:50	FINES AT FILL EDGE	1				X							(ALL E.P. TOX METALS EXCEPT Hg)
891011F	X		4/30/89	14:00	FINES SE COR FILL	1				X							
891021F	X		4/30/89	14:00	SUBGRT AT TIP AREA	1				X							
891031F	X		6/30/89	11:20	FILL S. EDGE	1				X							

RECEIVED  
OHIO EPA

JUL 24 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

Relinquished by:  
(Signature)

Date

Time

Received by:  
(Signature)Relinquished by:  
(Signature)

Date

Time

Received by:  
(Signature)Relinquished by:  
(Signature)

Date

Time

Received for Laboratory  
by: (Signature)

Date

Time

Remarks:

Samples rec. in good  
cond. w/ Seal in' t. 80

White - Lab

Yellow - Office

Pink - Field

# RCRA INTERIM STATUS INSPECTION FORM

Facility Name: AMERICAN STEEL FOUNDRIES Date of Inspection 6/12/89  
 Address: LAKE PARK BLVD @ EDWINTON HWFB #: \_\_\_\_\_  
SEBRING TWP. USEPA ID #: DHD  
 County: MAHONING Facility Phone #: NO PHONE  
 Facility Contact: PAUL LIMBACH Facility Contact Phone#: \_\_\_\_\_  
CHUCK RUUD Safety Equipment #: \_\_\_\_\_  
 Inspector(s) Name(s): KEVIN BONZO  
KRIS CODER

## STATUS

Cond. Ex. SQG \_\_\_\_\_ SQG \_\_\_\_\_ Generator \_\_\_\_\_ Transporter \_\_\_\_\_ Treatment \_\_\_\_\_ Storage \_\_\_\_\_ Disposal ☒

## ACTIVITIES

Containers \_\_\_\_\_ Tanks \_\_\_\_\_ Surface Impoundments \_\_\_\_\_ Incineration/Thermal treatment \_\_\_\_\_  
 Waste pile \_\_\_\_\_ Land treatment \_\_\_\_\_ Landfill ☒ Groundwater monitoring ☒  
 Used oil burner \_\_\_\_\_ Hazardous waste fuel burner/blender \_\_\_\_\_

1. Does the facility produce "discarded materials" as defined in 3745-51-02(A)? DISCARDED MATERIALS GENERATED AT PRODUCTION FACILITY

Y/N/NA REMARK #

N \_\_\_\_\_

2. Are they :

- a. Abandoned (disposed; incinerated; accumulated, stored, or treated prior to disposal)?
- b. Recycled?
- c. Inherently waste-like? (F020, F021, F022, F023, F026, F028)?

X \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

3. If recycled or accumulated, treated or stored before recycling, is the waste:

- a. Used in a manner constituting disposal?
- b. Burned for energy recovery?
- c. Reclaimed? (Refer to Table 1 of 3745-51-02)
- d. Accumulated speculatively?

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

4. Is the material recycled by being:

- a. Used or reused as an ingredient in an industrial process to make a product without prior reclamation?
- b. Used as an effective substitute for commercial products?
- c. Returned to the original process from which it was generated without prior reclamation as a substitute for a raw material feedstock?

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- |     |   | Y/N/NA     | REMARK #    |
|-----|---|------------|-------------|
| 5.  | Are LDR wastes generated? If so, complete appropriate LDR checklist.                      | <u>N</u>   |             |
| 6.  | Has the facility submitted a Part A to Ohio?  | <u>Y</u>   |             |
| 7.  | If yes, is it complete and accurate?  | <u>N</u>   | (See below) |
| 8.  | If not accurate, has a PCR been submitted? If yes, what date was the PCR submitted?       | <u>N/A</u> |             |
| 9.  | Is the facility operating in compliance with the terms and conditions of its HWFB permit? | <u>N</u>   |             |
| 10. | Has the facility submitted a Part B?  |            |             |
| 11. | Was advance notice of the inspection given? If so, how far in advance?                    |            |             |

ENTRY  
OBTAINED BY  
ADMINISTRATIVE  
TIME  
SEARCH  
WARRANT

PART A SUBMITTED IN NOV. 1980 FOR LANDFILL  
DISPOSAL OF D006 WASTE

IN JUNE 1982, ASF REQUESTED USEPA  
WITHDRAW PART A APPLICATION BASED ON  
THEIR TESTING OF WASTE STREAM

U.S. EPA ACKNOWLEDGES REQUEST IN APRIL 1983  
BASED ON INFORMATION SUBMITTED AT  
THAT TIME.

SUBSEQUENT SAMPLING BY U.S. EPA  
CONFIRMED DISPOSAL OF HAZARDOUS  
WASTE AT THIS FACILITY.

REMARKS. GENERAL INFORMATION.

Include list of wastes being generated/managed at the site and a brief description of site activity and waste handling.

OAC 3745-65-et seq. GENERAL FACILITY STANDARDS (40 CFR Part 265, SUBPART B)

		Y/N/NA	REMARK #
1.	Does the owner/operator (o/o) have a detailed chemical and physical analysis of the waste material containing all of the information which must be known to properly treat or store the waste as required by 3745-65-13(A)(1) (265.13(a))?	<u>Y</u>	<u>      </u> ✓
2.	Does o/o have a written waste analysis plan which describes analytical parameters, test methods, sampling methods, testing frequency and responses to any process changes that may affect the character of the waste. [3745-65-13(B)] (265.13(b))	<u>N</u>	<u>      </u>
3.	a. Would physical contact with the waste structures or equipment injure unknowing/unauthorized persons or livestock entering the facility? [3745-65-14(A)(1)] (265.14(a)(1))	<u>Y</u>	<u>      </u>
	b. Would disturbance of the waste cause a violation of the hazardous waste regulations? [3745-65-14(A)(2)] (265.14(a)(2))	<u>Y</u>	<u>      </u>
IF BOTH 3A and 3B ARE NO, MARK QUESTIONS 4 AND 5 NOT APPLICABLE.			
4.	Does the facility have -		
	a. A 24-hour surveillance system, or	<u>N</u>	<u>      </u>
	b. An artificial or natural barrier and a means to control entry at all times [3745-65-14(B)(2)(a and b)] (265.14(b)(2))	<u>Y</u>	SECURITY FENCE, INSTALL 4-5/89
5.	Does the facility have a sign "Danger-Unauthorized Personnel Keep Out" at each entrance to the active portion of the facility and at other locations as necessary. [3745-65-14(C)](265.14(c))	<u>Y</u>	LEGEND - NO TRESPASSING VIOLATORS WILL BE PROSECUTED.
6.	a. Has the o/o developed and followed a comprehensive, written inspection plan and documented the inspections, malfunctions and any remedial actions taken in an operating record log which is kept for at least three years. [3745-65-15] (265.15)	<u>N</u>	<u>      </u>

Y/N/NA REMARK #

- b. Are areas subject to spills (i.e., loading and unloading areas, etc.) inspected daily when in use and according to other applicable regulations when not in use. [3745-65-15(B)(4)] (265.15(b)(4))
7. Has the o/o provided a Personnel Training Program in compliance with 3745-65-16(A)(B)(C) including instruction in safe equipment operation and emergency response procedures, training new employees within 6 months and providing an annual training program refresher course. (265.16(a)(b)(c))
8. Does o/o keep all records required by 3745-65-16(D)(E) including written job titles, job descriptions and documented employee training records. (265.16(d)(e))
9. If Ignitable, Reactive or incompatible wastes are handled, does the facility meet the following requirements? [3745-65-17](265.17)
- a. Protection from sources of ignition.
  - b. Physical separation of incompatible waste materials.
  - c. "No Smoking" or "No Open Flames" signs near areas where Ignitable or Reactive wastes are handled.
  - d. Comingling of waste materials is done in a controlled, safe manner as prescribed by 3745-65-17(B) (265.17(b))

N \_\_\_\_\_

N \_\_\_\_\_

N \_\_\_\_\_

N/A \_\_\_\_\_

↓ \_\_\_\_\_  
↓ \_\_\_\_\_  
↓ \_\_\_\_\_  
↓ \_\_\_\_\_

OAC 3745-65 PREPAREDNESS AND PREVENTION (40 CFR PART 265 SUBPART C)

		<u>Y/N/NA</u>	<u>REMARK #</u>
1.	Is the facility operated to minimize the possibility of fire, explosion, or non-planned release of hazardous waste? [3745-65-31] (265.31)	<u>N</u>	_____
2.	Has there been a fire, explosion or <u>non-planned</u> release of waste at the facility?	<u>N</u>	_____
3.	If required due to actual hazards associated with the waste, does the facility have the following equipment: [3745-65-32(A)(B)(C)(D)] (265.32)		
a.	Internal alarm system?	<u>N/A</u>	_____
b.	Access to telephone, radio or other device for summoning emergency assistance?	<u>✓</u>	<u>RADIOS IN TRUCKS</u>
c.	Portable fire control equipment?	<u>N/A</u>	_____
d.	Water of adequate volume and pressure via hoses, sprinkler, foamers or sprayers?	<u>N/A</u>	_____
4.	Is all required spill control and decontamination equipment, fire and communications equipment tested and maintained as necessary? [3745-65-33] (265.33)	<u>N</u>	_____
5.	If required due to the actual hazards associated with the waste, do personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled? [3745-65-34] (265.34)	<u>Y</u>	<u>RADIOS</u>
6.	If required due to the actual hazards associated with the waste, is adequate aisle space to allow unobstructed movement of emergency or spill control equipment maintained? [3745-65-35] (265.35)	<u>N/A</u>	_____
7.	If required due to the actual hazards associated with the waste, has the facility attempted to make appropriate arrangements with local authorities to familiarize them with the possible hazards and the facility layout? [3745-65-37(A)] (265.37(a))	<u>N/A</u>	_____

Y/N/NA   REMARK #

8.   Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements, has the refusal been documented. [3745-65-37(B)] (265.37(b))

  N/A



OAC 3745-65 CONTINGENCY PLAN AND EMERGENCY PROCEDURES (40 CFR PART 265 SUBPART D)

Y/N/NA REMARK #

1. Does the o/o have a written Contingency Plan designed to minimize hazards from fire, explosions or unplanned releases of hazardous wastes which contains the following components for the facility? [3745-65-52(A)(B)(C)(D)(E)] (265.52):

- a. Actions to be taken by personnel in the event of an emergency incident?
- b. Arrangements or agreements with local or state emergency authorities?
- c. Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator?
- d. A list of all emergency equipment including location, physical description and outline of capabilities?
- e. If required due to the actual hazards associated with the waste handled, an evacuation plan for facility personnel? [3745-65-52(F)] (265.51(f))?

✓	

2. Is a copy of the Contingency Plan and any plan revisions maintained on-site and has been submitted to all local and state emergency service authorities that might be required to participate in the execution of the plan? [3745-65-53(A)(B)] (265.53)

--	--

3. Is the plan revised in response to rule changes, facility, equipment and personnel changes or failure of the plan? [3745-65-54] (265.54)

--	--

4. Is an emergency coordinator who is familiar with all aspects of site operation and emergency procedures who has the authority to implement all aspects of the Contingency Plan designated at all times (on-site or on-call)? [3745-65-56(A-J)] (265.56)

--	--

5. If an emergency situation has occurred, has the emergency coordinator implemented all or part of the Contingency Plan and taken all of the actions and made all of the notifications deemed necessary under 3745-65-56(A-J). (265.56(a-j))

✓	N/A -
---	-------

NO CONTIN-  
GENCY PLAN  
NO E.C.

C 3745-65 MANIFEST SYSTEM/RECORDS/REPORTING (40 CFR PART 265, SUBPART E)

NOTE: THE FOLLOWING REQ~

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH ON-SITE AND OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

[illegible]

1. Does the o/o maintain a written operating record at the facility as required by 3745-65-73(A) (265.73) which contains the following information:
  - a. Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date and method pertinent to such treatment, storage or disposal? [3745-65-73(B)(1)] (265.73(b)(1).
  - b. Common name, EPA Hazardous Waste Identification Number and physical state (solid, liquid, gas) of the waste?
  - c. The estimated (or actual) weight, volume or density of the waste material?
  - d. A description of the method(s) used to treat, store or dispose of the waste using the EPA handling codes listed in Table 2 of OAC 3745?:(Part 265, Appendix I, Table 2)
  - e. The present physical location of each hazardous waste within the facility?
  - f. Records of incidents which require implementation of the Contingency Plan?
  - g. FOR DISPOSAL FACILITIES, the location and quantity of each hazardous waste recorded on a map of the facility and cross-references to any pertinent manifest document numbers? [3745-65-73(B)(2)] (265.73(b)(2))
  - h. Records of any waste analyses and trial tests required to be performed?
  - i. Records of the inspections required under 3745-65-15 (265.15) (General Inspection Requirements)?
  - j. Records of any monitoring, testing, or analytical data required under other Subparts as referenced by 3745-65-73(B)(6);(265.73(b)(6))?

Y/N/NA    REMARK #

- k.        Records of closure cost estimates and post-closure  
          (DISPOSAL ONLY) cost estimates required under  
          OAC 3745-66 (Part 265 Subpart G)?

See CLOSURE  
SECTION

2.        Has the o/o submitted an annual (biennial) Treatment-Storage-  
Disposal Operating Report (by March 1) containing all of the  
operating information required under 3745-65-75 (265.75)?

N        \_\_\_\_\_

NOTE:    THE FOLLOWING REQUIREMENTS ARE APPLICABLE ONLY TO OFF-SITE TSDS.

3.        Are manifests received by the facility signed and dated?  
Is one copy given to the transporter, one copy sent to the  
generator within 30 days and one copy kept for at least 3 years?  
[3745-65-71(A)] (265.71)

N        \_\_\_\_\_  
N        \_\_\_\_\_

- a.        If shipping papers are used in lieu of manifests  
          (bulk shipments, etc.), are the same requirements met  
          [3745-65-71(B)] (265.71(b))?
- b.        Are any significant discrepancies in the manifest, as  
          defined in 3745-65-72(A) (265.72(a)) noted in writing  
          on the manifest document.

N/A        NOT  
USED

N/A        MANIFEST  
NOT  
USED

4.        Have any manifest discrepancies been reconciled within 15 days  
as required by 3745-65-72(B) (265.72(b)) or has the o/o submitted  
the required information to the Director/Regional Administrator?

N/A        ✓

5.        If the facility has accepted any unmanifested hazardous wastes  
from off-site sources for treatment, storage, or disposal, has  
an unmanifested waste report containing all the information  
required by 3745-65-76(A) (265.76) been submitted to the  
Director/Regional Administrator within 15 days?

N        \_\_\_\_\_

OAC 3745-66 CLOSURE AND POST-CLOSURE (40 CFR PART 265, SUBPART G)

		<u>Y/N/NA</u>	<u>REMARK #</u>
1.	Is a written closure plan on file at the facility which contains the following elements: [3745-66-12] (265.112)?	<u>NA</u>	
a.	A description of how each hazardous waste management unit will be closed in accordance with 265.11.		
b.	A description of how final closure will meet the requirements of 3745-66-11 (265.111).		
c.	An estimate of the maximum amount of hazardous waste in inventory.		
d.	A description of steps taken to remove or decontaminate facility equipment containment systems, structures, soils, and all hazardous waste residues.		
e.	The year closure is expected to begin and a schedule for the various phases of closure.		
f.	A description of other activities necessary to ensure closure with the performance standards including ground water monitoring, leachate collection, and run-off control.		
2.	Has the closure plan (and post-closure plan, if applicable) been amended 60 days prior to any changes in facility design, processes, or closure dates or 60 days after an unexpected event occurs which effects the closure plan? [3745-66-12(C)] (265.112(c))		
3.	Has the closure plan (and post-closure plan, if applicable) for surface impoundment, waste pile, land treatment or landfill units been submitted to the Director/Regional Administrator 180 days prior to beginning the closure process or 45 days if only have tanks, container storage or incinerator? [3745-66-12(D)] (265.112(d))	<u>N/A</u>	<u>CLOSURE HAS NOT BEEN INITIATED AT THIS TIME</u>
4.	Has the closure plan (and post-closure plan, if applicable) for tank, containers storage or incinerator units been submitted to the Director/Regional Administrator 45 days prior to beginning the closure process? [3745-66-12(D)] (265.112(d))	<u>N/A</u>	

5. Within 90 days of receipt of the final volume of waste or Director's plan approval, if that is later, was all hazardous waste treated, removed, or disposed in accordance with the approved plan? [3745-66-13(A)] (265.113(a)) N/A
6. Was closure completed in accordance with the approved plan within 180 days after receipt of final volume of waste or approval of the plan, if that is later? [3745-66-13(B)] (265.113(b)) N/A
7. Did the owner/operator submit to the Director/Regional Administrator, within sixty (60) days after completion of closure, certification by both the owner/operator and an independent registered professional engineer that the facility has been closed in accordance with the approved closure plan? [3745-66-15] (265.115) N/A
8. What permitted units at the facility have been closed in accordance with an approved Closure Plan? NONE
9. If closure was partial, list the regulated units which remain in use at the facility: N/A
10. If required, has the facility prepared a written post-closure plan? [3745-66-18] (265.118) N
11. Does the post-closure plan include:
- a. A description of proposed ground water monitoring?
  - b. A description of planned maintenance activities?
  - c. The name, address and phone number of person/office to contact during the post-closure period?
12. For disposal facilities, has the owner/operator submitted to local land authorities and the Director a survey plat within 60 days after certification of closure? [3745-66-19] (265.119) N/A

Y/N/NA   REMARK #

13.~96Has the owner of the property on which a disposal unit is located recorded on the deed that:

- a.      The land has been used to manage hazardous waste and the type, quantity and location of waste?
- b.      Land use is restricted pursuant to 3745-66-17?  
         [3745-66-10] (265.119)

  N             
  N

JAC 3745-68 LANDFILLS (40 CFR PART 265, SUBPART N)

Y/N/NA    REMARK #

1.    General Operating Requirements. Does the facility provide the following:

- a.    Run-on control capable of handling a 24-hr, 25-yr storm?  
[3745-68-02(A)] (265.302(a))
- b.    Run-off control capable of handling a 24-hr, 25-yr storm?  
[3745-68-02(B)] (265.302(b))
- c.    If run-off is hazardous waste, is it managed in accordance  
with applicable rules? [3745-68-02(B)]
- d.    Are facilities associated with run-on and run-off control  
systems managed to maintain design capacity after rain  
events? [3745-68-02(C)] (265.302(c))
- e.    Control of wind dispersal of hazardous waste?  
[3745-68-02(D)] (265.302(d))

<u>✓</u>	<u>        </u>
<u>✓</u>	<u>        </u>
<u>✓</u>	<u>        </u>
<u>✓</u>	<u>        </u>
<u>✓</u>	<u>        </u>

2.    Surveying and Recordkeeping. Does the operating record include:  
[3745-68-09] (265.309)

- a.    A map showing the exact location and dimensions of each cell?  
[3745-68-09(A)] (265.309(a))
- b.    The contents of each cell and the location of each hazardous  
waste type within each cell? [3745-68-09(B)] (265.309(b))

<u>✓</u>	<u>        </u>
<u>✓</u>	<u>        </u>

3.    Are ignitable or reactive wastes treated so the resulting mixture  
is no longer ignitable or reactive? [3745-68-12] (265.312(a)(b))

N/A         

NOTE: IF WASTE IS RENDERED NON-REACTIVE OR NON-IGNITABLE, SEE TREATMENT REQUIREMENTS. IF NOT, THE PROVISIOS OF 3745-65-17 AND 3745-68-12(B) APPLY. (40 CFR 265.17(b))

Y/N/NA REMARK #

4. Does the owner/operator dispose of incompatible wastes in separate cells? [3745-68-13] (265.313) If not, the provisions of 3745-68-15 apply. (265.17(b)) N/A
5. Are empty containers crushed flat, shredded, or similarly reduced in volume before being buried beneath the surface of the landfill? [3745-68-15] (265.315) N/A NONE OBSERVED
6. Are containers at least 90% full prior to placement in the landfill? N/A BULK DISPOSAL
7. Is bulk or non-containerized liquid waste or waste containing free liquids treated so that free liquids are not longer present. [3745-68-14(A)] (265.314(a)) N
8. Are containers other than lab packs, ampules, batteries or capacitors holding free liquids placed in the landfill? [3745-68-14(B)] (265.314(b)) If yes, has all free liquid been removed, absorbed or otherwise eliminated? N/A
9. Has the owner/operator employed Method 9095 (Paint Filter Liquids Test) to demonstrate the absence of free liquids in containerized or bulk waste? [3745-68-14(D)] (265.314(d)) N
10. Are the special requirements for lab pack waste met? [3745-68-16] (265.316) N/A
11. Is a written closure/post-closure plan available for inspection at the facility? [3745-66-12] (265.112) N
12. Has the closure/post-closure plan been amended 60 days prior to any changes in facility design, or operation or no later than 60 days after an unexpected event has occurred which has effectived the closure plan? [3745-66-18(D)] (265.118(d)) N



- |     |   | <u>Y/N/NA</u> | <u>REMARK #</u>             |
|-----|---|---------------|-----------------------------|
| 13. | Has the closure/post-closure plan been submitted to the Director/<br>Regional Administrator 180 days prior to beginning closure?<br>[3745-66-18(E)] (265.118(e))  | <u>N/A</u>    | _____                       |
| 14. | Does the plan contain information required in 3745-68-10? (265.310)   | <u>N</u>      | <u>NO</u><br><u>PLC + N</u> |
| 15. | Is a closure cost estimate available?   | <u>N</u>      | _____                       |
| 16. | Has closure begun?  | <u>N</u>      | _____                       |
| 17. | Has the property owner attached a notation to the property deed<br>or other instrument which will notify any potential purchaser that<br>the property has been used to manage hazardous waste and future use<br>of the property is restricted under 3745-66-17(C) (265.117(c))<br>as required in 3745-66-19 (265.119(b))? | <u>N</u>      | _____                       |

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KEMRON

REPORT

Work Order # M9-06-06

07/11/89 07:35:16

REPORT Ohio EPA DSHWM  
TO 1800 Watermark Dr.  
P.O. Box 1049  
Columbus, OH 43266-0149  
ATTEN Susan Buchanan

PREPARED KEMRON ENVIRONMENTAL SERVICES  
BY 109 STARLITE PARK  
MARIETTA, OHIO 45750

David L. Hengen  
CERTIFIED BY

ATTEN  
PHONE (614) 373-4071

CONTACT H. BUSKIRK

CLIENT OEPA 56664 SAMPLES 4  
COMPANY Ohio EPA  
FACILITY 1800 Watermark Dr.  
Columbus, Ohio 43266-0149

ALL WORK PERFORMED IN ACCORDANCE WITH STANDARD METHODOLOGY.

\* Analysis performed on DI EP-Toxicity Leachate  
(Phenol, CN, F)

WORK ID K890613-2/ American Steel  
TAKEN  
TRANS  
TYPE  
P.O. # 308731/113088  
INVOICE under separate cover

SAMPLE IDENTIFICATION

1 ASF 001 K890613-2  
2 ASF 002 K890613-2  
3 ASF 007 K890613-2  
4 ASF 008 K890613-2

TEST CODES and NAMES used on this report

AG Silver, Total  
AS Arsenic, Total  
BA Barium, Total  
CD Cadmium, Total  
CN Cyanide, Total  
CR Chromium, Total  
EP MET EP Toxicity Metals  
F Fluoride  
HG Mercury, Total  
M8240 Volatile Organics  
PB FU Lead, Total  
PHENOL Phenolics, Total  
SE Selenium, Total

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JUL 14 1989

OHIO EPA-N.E.D.O.

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

**KEMRON**  
KEMRON ENVIRONMENTAL SERVICES

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KEMRON  
07/21/89 11:22:57

Work Order # M9-06-143

REPORT Ohio EPA DSHWM  
TO 1800 Watermark Dr.  
P.O. Box 1049  
Columbus, OH 43266-0149  
ATTEN Susan Buchanan

PREPARED KEMRON ENVIRONMENTAL SERVICES  
BY 109 STARLITE PARK  
MARIETTA, OHIO 45750

*David L. Banger*  
CERTIFIED BY

ATTEN  
PHONE (614) 373-4071

CONTACT H BUSKIRK

CLIENT OEPA 56664 SAMPLES 7  
COMPANY Ohio EPA  
FACILITY 1800 Watermark Dr.  
Columbus, Ohio 43266-0149

ALL WORK PERFORMED IN ACCORDANCE WITH STANDARD METHODOLOGY.

WORK ID K890606-1/ American Steel  
TAKEN  
TRANS  
TYPE  
P.O. # 308731/113088  
INVOICE under separate cover

SAMPLE IDENTIFICATION

TEST CODES and NAMES used on this report

01 ASF-011 -Top- K890606-1  
01 ASF-011-Bottom- K890606-1  
02 ASF-010 K890606-1  
03 ASF-009 K890606-1  
04 ASF-006 K890606-1  
05 ASF-005 K890606-1  
06 ASF-004 K890606-1  
07 ASF-003 K890606-1

EP MET EP Toxicity Metals  
FLASH Flashpoint  
M8240 Volatile Organics  
PH L pH (Lab)

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OHIO EPA-N.E.D.O.

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**KEMRON**  
KEMRON ENVIRONMENTAL SERVICES

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KEMRON  
Test Methodology

REPORT

Work Order # M9-06-166

EST CODE AG NAME Silver, Total  
PA Method 200.7 (ICP) or 272.1 (AA - Direct Aspiration)

EST CODE AS NAME Arsenic, Total  
PA Method 206.3 (AA Vapor Hydride)

EST CODE BA NAME Barium, Total  
PA Method 200.7 - (ICAP) or 208.1 (AA - Direct Aspiration)

EST CODE CD NAME Cadmium, Total  
PA Method 200.7 (ICP) or 213.1 (AA - Direct Aspiration)

EST CODE CN NAME Cyanide, Total  
PA Method 335.2 Reflux, Spectrophotometric, Titrimetric

EST CODE CR NAME Chromium, Total  
PA Method 200.7 (ICP) or 218.1 (AA - Direct Aspiration)

EST CODE EP\_MET NAME EP Toxicity Metals  
PA Method 1310 (SW-846)

EST CODE F NAME Fluoride  
PA Method 340.2 Fluoride Electrode

EST CODE HG NAME Mercury, Total  
PA Method 245.1 (Cold Vapor)

EST CODE M8240 NAME Volatile Organics  
PA Method 8240 Volatile Organics - Purge and Trap

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KEMRON REPORT  
Test Methodology

Work Order # M9-06-136

TEST CODE PB\_FU NAME Lead, Total

AA Method 239.2 AA Graphite Furnace

TEST CODE PHENOL NAME Phenolics, Total

AA Method 420.1 Spectrophotometric Manual 4-AAP  
with distillation

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KEMRON

REPORT  
Test Methodology

Work Order # M9-06-143

EST CODE EP\_MET NAME EP Toxicity Metals

PA Method 1310 (SW-846)

EST CODE FLASH NAME Flashpoint

PA Method 1010 SW-846 (Pensky-Martens Closed-Cup)

EST CODE M8240 NAME Volatile Organics

PA Method 8240 Volatile Organics - Purge and Trap

EST CODE PH\_L NAME pH (Lab)

PA Method 150.1 - Electrometric

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**KEMRON**  
KEMRON ENVIRONMENTAL SERVICES

CLIENT: Ohio EPA DSHWM  
REPORT NO.: M9-06-143

## ANALYTICAL REPORT FORM

KEMRON

SAMPLE #	CLIENT IDENTIFICATION	RESULTS OF ANALYSIS
----------	-----------------------	---------------------

=====	=====	=====
-------	-------	-------

PAINT FILTER LIQUID  
TEST

06-143-04	ASF-006 - K890606-1	NO
06-143-05	ASF-005 - K890606-1	YES
06-143-06	ASF-004 - K890606-1	NO
06-143-07	ASF-003 - K890606-1	NO

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DIV. of SOLID &amp; HAZ. WASTE MGT.

water - toe of fill area east of plant

12 2

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KEMRON

REPORT

Work Order # M9-06-166

Results by Sample

SAMPLE ID <u>ASF 001</u>		<u>K890613-2</u>		SAMPLE # <u>01</u>		FRACTIONS: <u>A,B</u>					
Date & Time Collected <u>06/09/89 12:08:00</u>				Category <u>WATER</u>							
AG	<u>&lt;0.01</u>	AS	<u>0.01</u>	BA	<u>0.86</u>	CD	<u>&lt;0.01</u>	CR	<u>&lt;0.02</u>	HG	<u>&lt;0.0005</u>
	mg/l Ag		mg/l As		mg/l Ba		mg/l Cd		mg/l Cr		mg/l Hg
PB_FU	<u>0.067</u>	SE	<u>&lt;0.004</u>								
	mg/l Pb		mg/l Se								

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KEMRON

REPORT

Work Order # M9-06-1

Results by Sample

SAMPLE ID ASF 001

K890613-2

FRACTION 01A

TEST CODE M8240

NAME Volatile Organics

Date & Time Collected 06/09/89 12:08:00

Category WATER

ANALYST: FSA  
INSTRMT: FINN2

FILE #: 20E7197  
INJECTD: 06/15/89 FACTOR:

1 UNITS:

ug/L

VERIFIED: DMD

CAS#	COMPOUND	RESULT	DET LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene chloride	BDL	5
67-64-1	Acetone	BDL	10
75-15-0	Carbon disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
540-59-0	1,2-Dichloroethene (total)	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	10
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon tetrachloride	BDL	5
108-05-4	Vinyl acetate	BDL	10
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
110-75-8	2-Chloroethyl vinyl ether	BDL	10
75-25-2	Bromoform	BDL	5
591-78-6	2-Hexanone	BDL	10
108-10-1	4-Methyl-2-pentanone	BDL	10
127-18-4	Tetrachloroethene	BDL	5

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Received: 06/14/89

KEMRON REPORT  
Results by Sample

Work Order # M9-06-100  
Continued From Above

SAMPLE ID ASF 001 K890613-2 FRACTION 01A TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 12:08:00 Category WATER

CAS#	COMPOUND	RESULT	DET LIMIT
108-88-3	Toluene	BDL	5
79-34-5	1,1,2,2,-Tetrachloroethane	BDL	5
108-90-7	Chlorobenzene	8	5
100-41-4	Ethyl benzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (Total)	12	5

SURROGATES	
1,2-Dichloroethane-d4	<u>97</u> % Recovery
Toluene-d8	<u>98</u> % Recovery
p-Bromofluorobenzene	<u>93</u> % Recovery

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DIV. of SOLID & HAZ. WASTE MGT.

NOTES AND DEFINITIONS FOR THIS REPORT  
DET LIMIT = DETECTION LIMIT  
BDL = BELOW DETECTION LIMIT  
\* = SEMI-QUANTITATIVE SCREEN ONLY

**Kemron**  
KEMRON ENVIRONMENTAL SERVICES

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KEMRON REPORT  
Results by Sample

Work Order # M9-06-143

SAMPLE ID <u>ASF-004</u>	<u>K890606-1</u>	SAMPLE # <u>06</u> FRACTIONS: <u>A</u>
Date & Time Collected <u>06/09/89 11:08:00</u>		Category <u>SLUDGE</u>

FLASH 46  
Degrees C

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DIV. of SOLID & HAZ. WASTE MGT.

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*water  
acetone - Lab Error*

KEMRON

REPORT

Work Order # M9-06 166

Results by Sample

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SAMPLE ID	ASF 002	K890613-2	SAMPLE #	02	FRACTIONS:	A, B	Date & Time Collected	06/09/89 12:29:00	Category	WATER	
AG	<0.01	AS	0.02	BA	0.30	CD	0.01	CR	0.2	HG	0.001
	mg/l Ag		mg/l As		mg/l Ba		mg/l Cd		mg/l Cr		mg/l Hg
PB_FU	0.03	SE	<0.004								
	mg/l Pb		mg/l Se								

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KEMRON REPORT  
Results by Sample

Work Order # M9-06-.6

SAMPLE ID ASF 002 K890613-2 FRACTION 02A TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 12:29:00 Category WATER

ANALYST: JLJ  
INSTRMT: FINN2

FILE #: 20E7199  
INJECTD: 06/15/89 FACTOR:

1 UNITS: ug/L VERIFIED: DMD

CAS#	COMPOUND	RESULT	DET LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene chloride	BDL	5
67-64-1	Acetone	490000	10
75-15-0	Carbon disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
540-59-0	1,2-Dichloroethene (total)	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	10
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon tetrachloride	BDL	5
108-05-4	Vinyl acetate	BDL	10
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
110-75-8	2-Chloroethyl vinyl ether	BDL	10
75-25-2	Bromoform	BDL	5
591-78-6	2-Hexanone	BDL	10
108-10-1	4-Methyl-2-pentanone	BDL	10
127-18-4	Tetrachloroethene	BDL	5

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DIV. of SOLID & HAZ. WASTE MGT.

**KEMRON**  
KEMRON ENVIRONMENTAL SERVICES

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KEMRON  
Results by Sample

Work Order # M9-06-166  
Continued From Above

SAMPLE ID ASF 002 K890613-2 FRACTION 02A TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 12:29:00 Category WATER

CAS#	COMPOUND	RESULT	DET LIMIT
108-88-3	Toluene	BDL	5
79-34-5	1,1,2,2,-Tetrachloroethane	BDL	5
108-90-7	Chlorobenzene	15	5
100-41-4	Ethyl benzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (Total)	BDL	5

SURROGATES	
1,2-Dichloroethane-d4	<u>85</u> % Recovery
Toluene-d8	<u>94</u> % Recovery
p-Bromofluorobenzene	<u>78</u> % Recovery

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DIV. of SOLID & HAZ. WASTE MGT.

NOTES AND DEFINITIONS FOR THIS REPORT  
DET LIMIT = DETECTION LIMIT  
BDL = BELOW DETECTION LIMIT  
\* = SEMI-QUANTITATIVE SCREEN ONLY

**KEMRON**  
KEMRON ENVIRONMENTAL SERVICES

*Paint sludge in dumpster/earthen perimeter  
not liquid/ignitable - not haz. waste*  
KEMRON REPORT

Work Order # M9-06-143

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Results by Sample

SAMPLE ID ASF-003 K890606-1 FRACTION 07A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/09/89 12:43:00 Category SLUDGE

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.13	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	<0.001	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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DIV. of SOLID & HAZ, WASTE MGT.

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Work Order # M9-00 43

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REPORT  
Results by Sample

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SAMPLE ID ASF-003

K890606-1

SAMPLE # 07 FRACTIONS: A

Date & Time Collected 06/09/89 12:43:00 Category SLUDGE

FLASH 56  
Degrees C

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Scrap Paint + debris - barrel  
liquid/ignitable/ haz waste

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KEMRON

REPORT

Work Order # M9-06-143

Results by Sample

SAMPLE ID ASF-005 K890606-1

FRACTION 05A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/09/89 13:18:00 Category LIQUID

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.28	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	0.001	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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DIV. of SOLID & HAZ. WASTE MGT.

**KEMRON**  
KEMRON ENVIRONMENTAL SERVICES

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KEMRON REPORT  
Results by Sample

Work Order # M9-05-143

SAMPLE ID ASF-005 K890606-1 SAMPLE # 05 FRACTIONS: A  
Date & Time Collected 06/09/89 13:18:00 Category LIQUID

FLASH 53  
Degrees C

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*Sludge/Barrel/not a liquid  
not haz.*

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KEMRON

REPORT

Work Order # M9-00-143

Results by Sample

SAMPLE ID ASF-006 K890606-1 FRACTION 04A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/09/89 13:38:00 Category SLUDGE

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.14	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	<0.001	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON

REPORT

Work Order # M9-06-106

Results by Sample

*foundry sand ~~not~~ or core sand  
not haz*

SAMPLE ID <u>ASF 007</u>	<u>K890613-2</u>	SAMPLE # <u>03</u>	FRACTIONS: <u>A</u>
		Date & Time Collected <u>06/09/89 14:00:00</u>	Category <u>SOLID</u>
CN <u>&lt;0.01 *</u>	F <u>0.3 *</u>	PHENOL <u>&lt;0.002 *</u>	
mg/l CN	mg/l F	mg/l Phenol	

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DIV. of SOLID & HAZ. WASTE MGT

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KEMRON ENVIRONMENTAL SERVICES

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KEMRON

REPORT

Work Order # M9-06-166

Results by Sample

SAMPLE ID ASF 007

K890613-2

FRACTION 03A

TEST CODE EP MET NAME EP Toxicity Metals

Date & Time Collected 06/09/89 14:00:00

Category SOLID

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.18	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	<0.001	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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DIV. of SOLID & HAZ. WASTE MGT.

**KEMRON**  
KEMRON ENVIRONMENTAL SERVICES

*foundry sand or core sand  
not hvy*

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KEMRON

REPORT

Work Order # M9-06-166

Results by Sample

SAMPLE ID	ASF 008	K890613-2	SAMPLE #	04	FRACTIONS:	A	
			Date & Time Collected	06/09/89 14:15:00		Category	SOLID
CN	<0.01 *	F	0.1 *	PHENOL	0.033 *		
	mg/l CN		mg/l F		mg/l Phenol		

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KEMRON ENVIRONMENTAL SERVICES

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KEMRON REPORT  
Results by Sample

Work Order # M9-06-166

SAMPLE ID ASF 008 K890613-2 FRACTION 04A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/09/89 14:15:00 Category SOLID

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.1	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	<0.001	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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DIV. of SOLID & HAZ. WASTE MGT.

**KEMRON**  
KEMRON ENVIRONMENTAL SERVICES

009 - drum stable (brick bag)  
2 phase not conserved

KEMRON

REPORT

Work Order # M9-06-143

Results by Sample

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SAMPLE ID ASF-010

K890606-1

SAMPLE # 02 FRACTIONS: A

Date & Time Collected 06/09/89 14:50:00 Category LIQUID

FLASH >95  
Degrees C

SAMPLE ID ASF-009

K890606-1

SAMPLE # 03 FRACTIONS: A

Date & Time Collected 06/09/89 Category LIQUID

PH L 10.4  
S.U.

SAMPLE ID ASF-006

K890606-1

SAMPLE # 04 FRACTIONS: A

Date & Time Collected 06/09/89 13:38:00 Category SLUDGE

FLASH 51  
Degrees C

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*Yard - 70 drums  
5 drum composite  
KEMRON  
solvents + waste*

REPORT

Work Order # M9 6-143

SAMPLE ID ASF-011 -Top- K890606-1

FRACTION 01A

TEST CODE M8240

NAME Volatile Organics

Date & Time Collected 06/09/89 15:26:00

Category LIQUID

ANALYST: SPL  
INSTRMT: FINN2

FILE #: 20E7229  
INJECTD: 06/19/89 FACTOR:

5 UNITS: mg/L

CAS#	COMPOUND	RESULT	DET LIMIT
74-87-3	Chloromethane	BDL	50
74-83-9	Bromomethane	BDL	50
75-01-4	Vinyl chloride	BDL	50
75-00-3	Chloroethane	BDL	50
75-09-2	Methylene chloride	400	30
67-64-1	Acetone	500	50
75-15-0	Carbon disulfide	BDL	30
75-35-4	1,1-Dichloroethene	200	30
75-34-3	1,1-Dichloroethane	BDL	30
540-59-0	1,2-Dichloroethene (total)	BDL	30
67-66-3	Chloroform	BDL	30
107-06-2	1,2-Dichloroethane	BDL	30
78-93-3	2-Butanone	BDL	50
71-55-6	1,1,1-Trichloroethane	850	30
56-23-5	Carbon tetrachloride	BDL	30
108-05-4	Vinyl acetate	BDL	50
75-27-4	Bromodichloromethane	BDL	30
78-87-5	1,2-Dichloropropane	BDL	30
10061-01-5	cis-1,3-Dichloropropene	BDL	30
79-01-6	Trichloroethene	BDL	30
124-48-1	Dibromochloromethane	BDL	30
79-00-5	1,1,2-Trichloroethane	BDL	30
71-43-2	Benzene	BDL	30
10061-02-6	trans-1,3-Dichloropropene	BDL	30
110-75-8	2-Chloroethyl vinyl ether	BDL	50
75-25-2	Bromoform	BDL	30
591-78-6	2-Hexanone	BDL	50
108-10-1	4-Methyl-2-pentanone	BDL	50
127-18-4	Tetrachloroethene	1400	30
108-88-3	Toluene	290	30
79-34-5	1,1,2,2,-Tetrachloroethane	210	30
108-90-7	Chlorobenzene	BDL	30

VERIFIED: DMD

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON LABORATORY

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KEMRON REPORT  
Results by Sample

Work Order # M9 6-143  
Continued From Above

SAMPLE ID ASF-011 -Top- K890606-1

FRACTION 01A TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 15:26:00 Category LIQUID

CAS#	COMPOUND	RESULT	DET LIMIT
100-41-4	Ethyl benzene	BDL	30
100-42-5	Styrene	BDL	30
1330-20-7	Xylenes (Total)	740	30

SURROGATES	
1,2-Dichloroethane-d4	<u>93</u> % Recovery
Toluene-d8	<u>100</u> % Recovery
p-Bromofluorobenzene	<u>80</u> % Recovery

NOTES AND DEFINITIONS FOR THIS REPORT  
DET LIMIT = DETECTION LIMIT  
BDL = BELOW DETECTION LIMIT  
\* = SEMI-QUANTITATIVE SCREEN ONLY

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DIV. of SOLID & HAZ. WASTE MGT.

**Kemron**  
KEMRON LABORATORY, 11111 KEMRON DRIVE, CLEVELAND, OH 44130

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REPORT

Work Order # M. 06-143

Results by Sample

SAMPLE ID ASF-011 -Top- K890606-1      SAMPLE # 01 FRACTIONS: A  
Date & Time Collected 06/09/89 15:26:00      Category LIQUID

FLASH >95  
Degrees C

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**Kemron**  
AN IRVING-CLOUD COMPANY

7 3000 ppm mixing of waste + oil  
flash less than 62°  
KEMRON

Page 6  
Received: 06/13/89

REPORT  
Results by Sample

Work Order # M9-0 143

SAMPLE ID ASF-011-Bottom- K890606-1 FRACTION 01B TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 15:26:00 Category LIQUID

ANALYST: PJK  
INSTRMT: FINN2

FILE #: 20E7221  
INJECTD: 06/16/89 FACTOR: 5 UNITS: ug/L VERIFIED: DMD

CAS#	COMPOUND	RESULT	DET	LIMIT
74-87-3	Chloromethane	BDL		50
74-83-9	Bromomethane	BDL		50
75-01-4	Vinyl chloride	BDL		50
75-00-3	Chloroethane	BDL		50
75-09-2	Methylene chloride	18000		30
67-64-1	Acetone	2700		50
75-15-0	Carbon disulfide	BDL		30
75-35-4	1,1-Dichloroethene	150		30
75-34-3	1,1-Dichloroethane	BDL		30
540-59-0	1,2-Dichloroethene (total)	BDL		30
67-66-3	Chloroform	BDL		30
107-06-2	1,2-Dichloroethane	BDL		30
78-93-3	2-Butanone	BDL		50
71-55-6	1,1,1-Trichloroethane	140		30
56-23-5	Carbon tetrachloride	BDL		30
108-05-4	Vinyl acetate	BDL		50
75-27-4	Bromodichloromethane	BDL		30
78-87-5	1,2-Dichloropropane	BDL		30
10061-01-5	cis-1,3-Dichloropropene	BDL		30
79-01-6	Trichloroethene	BDL		30
124-48-1	Dibromochloromethane	BDL		30
79-00-5	1,1,2-Trichloroethane	BDL		30
71-43-2	Benzene	BDL		30
10061-02-6	trans-1,3-Dichloropropene	BDL		30
110-75-8	2-Chloroethyl vinyl ether	BDL		50
75-25-2	Bromoform	BDL		30
591-78-6	2-Hexanone	BDL		50
108-10-1	4-Methyl-2-pentanone	BDL		50
127-18-4	Tetrachloroethene	1200		30

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JUL 26 1989

DIV. of SOLID & HAZ. WASTE MGT.



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KEMRON REPORT  
Results by Sample

Work Order # M9-06 143  
Continued From Above

SAMPLE ID ASF-011-Bottom- K890606-1 FRACTION 01B TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 15:26:00 Category LIQUID

CAS#	COMPOUND	RESULT	DET	LIMIT
108-88-3	Toluene	150		30
79-34-5	1,1,2,2,-Tetrachloroethane	46		30
108-90-7	Chlorobenzene	BDL		30
100-41-4	Ethyl benzene	BDL		30
100-42-5	Styrene	BDL		30
1330-20-7	Xylenes (Total)	180		30

SURROGATES	
1,2-Dichloroethane-d4	83 % Recovery
Toluene-d8	78 % Recovery
p-Bromofluorobenzene	85 % Recovery

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NOTES AND DEFINITIONS FOR THIS REPORT  
DET LIMIT = DETECTION LIMIT  
BDL = BELOW DETECTION LIMIT  
\* = SEMI-QUANTITATIVE SCREEN ONLY

DIV. of SOLID & HAZ. WASTE MGT.

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REPORT

Work Order # M9-06-143

Results by Sample

SAMPLE ID ASF-011-Bottom- K890606-1

SAMPLE # 01 FRACTIONS: B

Date & Time Collected 06/09/89 15:26:00 Category LIQUID

FLASH 62  
Degrees C

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REPORT

Work Order # M9-07-081

07/20/89 08:25:55

REPORT Ohio EPA DSHWM  
TO 1800 Watermark Dr.  
P.O. Box 1049  
Columbus, OH 43266-0149  
ATTEN Susan Buchanan

PREPARED KEMRON ENVIRONMENTAL SERVICES  
BY 109 STARLITE PARK  
MARIETTA, OHIO 45750

*David H. Adnick*

CERTIFIED BY

ATTEN \_\_\_\_\_  
PHONE (614) 373-4071

CONTACT H. BUSKIRK

CLIENT OEPA 56664 SAMPLES 4  
COMPANY Ohio EPA  
FACILITY 1800 Watermark Dr.  
Columbus, Ohio 43266-0149

ALL WORK PERFORMED IN ACCORDANCE WITH STANDARD METHODOLOGY.

WORK ID American Steel Found/K8907061  
TAKEN \_\_\_\_\_  
TRANS \_\_\_\_\_  
TYPE \_\_\_\_\_  
P.O. # 308731/113088  
INVOICE under separate cover

TEST CODES and NAMES used on this report

SAMPLE IDENTIFICATION  
01 ASF100LF  
02 ASF101LF  
03 ASF102LF  
04 ASF103LF

EP MET EP Toxicity Metals

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JUL 24 1989

DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON ENVIRONMENTAL SERVICES

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Received: 07/07/89

KEMRON REPORT  
Results by Sample

Work Order # M9-07-081

SAMPLE ID ASF100LF K8907061 FRACTION 01A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/30/89 13:50:00 Category SOLID

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.97	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	NA	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON REPORT  
Results by Sample

Work Order # M9-07-J81

SAMPLE ID ASF101LF K8907061 FRACTION 02A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/30/89 14:00:00 Category SOLID

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.20	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	NA	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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JUL 24 1989

DIV. of SOLID & HAZ. WASTE MGT.

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REPORT

Work Order # M9-07-081

Results by Sample

SAMPLE ID ASF102LF K8907061

FRACTION 03A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/30/89 14:10:00 Category SOLID

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.39	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	NA	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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KEMRON REPORT  
Results by Sample

Work Order # M9-07-081

SAMPLE ID ASF103LF K8907061 FRACTION 04A TEST CODE EP\_MET NAME EP Toxicity Metals  
Date & Time Collected 06/30/89 14:20:00 Category SOLID

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.07	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	NA	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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REPORT  
Test Methodology

Work Order # M9-07-01

EST CODE EP\_MET NAME EP Toxicity Metals

PA Method 1310 (SW-846)

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KEMRON ENVIRONMENTAL SERVICES

KEMRON Environmental Services  
QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/18/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
TIN-AA	mg/l	JKM	10	9.33	*	*	-1.167	-1.14	0.027	*
CHLORIDE	mg/l	WMM	20	20.5	21.5	19.3	84	84	0	*
CADMIUM-ICP	mg/l	JKM	1	0.907	0.993	0.921	-0.002	-0.002	0	*
CHROMIUM-ICP	mg/l	JKM	1.02	0.988	1.067	0.977	0.005	0.003	0.002	*
BARIUM-ICP	mg/l	JKM	1.02	1	1.106	0.900	0.214	0.197	0.017	*
SILVER-ICP	mg/l	JKM	0.2	0.17	*	*	-0.001	0	0.001	*
LEAD-ICP	mg/l	JKM	1.02	0.992	*	*	0.004	0	0.004	*

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DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)  
LCLx = Lower Control Limit (Standard)  
UCLr = Upper Control Limit (Range)  
\* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/18/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
TIN-AA	mg/l	JKM	0.15	*	10	11.14	111	*	*
CHLORIDE	mg/l	WMW	0	*	20	21.5	108	*	*
CADMIUM-ICP	mg/l	JKM	-0.001	*	1	0.992	99	*	*
CHROMIUM-ICP	mg/l	JKM	0	*	1.02	0.965	95	*	*
BARIUM-ICP	mg/l	JKM	-0.001	*	1.02	1.01	99	*	*
SILVER-ICP	mg/l	JKM	0	*	0.2	0.189	95	*	*
LEAD-ICP	mg/l	JKM	0.003	*	1.02	1.125	110	*	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

KEMRON Environmental Services  
QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/19/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
SELENIUM-VH	mg/l	JKM	0.05	0.0512	0.06	0.042	0.0006	0.0001	0.0005	*
TPH	mg/l	MET	100	101	*	*	1300	1300	0	*
ARSENIC-VH	mg/l	JKM	0.051	0.0495	0.057	0.045	0.0037	0.0033	0.0004	*
CADMIUM-ICP	mg/l	JKM	1	0.989	0.993	0.921	0	0	0	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.04	1.067	0.977	0.025	0.021	0.004	*
BARIUM-ICP	mg/l	JKM	1.02	1.01	1.100	0.908	1.05	0.973	0.077	*
SILVER-ICP	mg/l	JKM	0.2	0.172	*	*	0.009	-0.003	0.012	*
LEAD-ICP	mg/l	JKM	1.02	1.1	*	*	0.046	0.058	0.012	*
MERCURY-CV	mg/l	JKM	0.01	0.0096	0.013	0.007	0.0003	0.0002	0.0001	*
PHENOLICS	mg/l	DH	0.05	0.054	0.067	0.04	0.13	0.11	0.02	*
LEAD-FURNACE	mg/l	JKM	0.051	0.049	*	*	0.006	0.009	0.003	*

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DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)  
LCLx = Lower Control Limit (Standard)  
UCLr = Upper Control Limit (Range)  
\* = Initial Data Collection

KEMRON Environmental Services  
 QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/19/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec. (%)	UCLs (%)	LCLs (%)
SELENIUM-VH	mg/l	JKM	0.0002	*	0.05	0.0435	87	*	*
TPH	mg/l	MET	0	*	25	25.5	102	*	*
ARSENIC-VH	mg/l	JKM	0.0002	*	0.051	0.0472	93	*	*
CADMIUM-ICP	mg/l	JKM	0	*	1	1.05	105	*	*
CHROMIUM-ICP	mg/l	JKM	0.002	*	1.02	1.07	105	*	*
BARIUM-ICP	mg/l	JKM	0.003	*	1.02	0.903	89	*	*
SILVER-ICP	mg/l	JKM	0.001	*	0.2	0.195	98	*	*
LEAD-ICP	mg/l	JKM	0.004	*	1.02	1.12	110	*	*
MERCURY-CV	mg/l	JKM	0.0001	*	0.01	0.0093	93	*	*
PHENOLICS	mg/l	DIH	0.001	*	0.5	0.533	107	*	*
LEAD-FURNACE	mg/l	JKM	0.0005	*	0.051	0.041	80	*	*

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UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection



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KEMRON REPORT  
07/17/89 15:03:28

Work Order # M9-06-166

REPORT Ohio EPA DSHWM  
TO 1800 Watermark Dr.  
P.O. Box 1049  
Columbus, OH 43266-0149  
ATTEN Susan Buchanan

PREPARED KEMRON ENVIRONMENTAL SERVICES  
BY 109 STARLITE PARK  
MARIETTA, OHIO 45750

*[Signature]*  
CERTIFIED BY

ATTEN  
PHONE (614) 373-4071

CONTACT H BUSKIRK

CLIENT OEPA 56664 SAMPLES 4  
COMPANY Ohio EPA  
FACILITY 1800 Watermark Dr.  
Columbus, Ohio 43266-0149

ALL WORK PERFORMED IN ACCORDANCE WITH STANDARD METHODOLOGY.

\* Analysis performed on Ohio EPA DI EP-Toxicity Leachate  
(Phenol, CN, F)

WORK ID K890613-2/ American Steel  
TAKEN  
TRANS  
TYPE  
P.O. # 8731/113088  
INV. # 500915

#### SAMPLE IDENTIFICATION

01	ASF 001	K890613-2
02	ASF 002	K890613-2
03	ASF 007	K890613-2
04	ASF 008	K890613-2

#### TEST CODES and NAMES used on this report

AG	Silver, Total
AS	Arsenic, Total
BA	Barium, Total
CD	Cadmium, Total
CN	Cyanide, Total
CR	Chromium, Total
EP_MET	EP Toxicity Metals
F	Fluoride
HG	Mercury, Total
M8240	Volatile Organics
PB_FU	Lead, Total
PHENOL	Phenolics, Total
SE	Selenium, Total

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON  
Results by Sample

Work Order # M9-06-166

SAMPLE ID ASF 001		K890613-2		SAMPLE # 01		FRACTIONS: A,B					
				Date & Time Collected		06/09/89 12:08:00		Category WATER			
AG	<0.01	AS	0.01	BA	0.86	CD	<0.01	CR	<0.02	HG	<0.0005
	mg/l Ag		mg/l As		mg/l Ba		mg/l Cd		mg/l Cr		mg/l Hg
PB_FU	0.067	SE	<0.004								
	mg/l Pb		mg/l Se								

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JUL 21 1989

DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON ENVIRONMENTAL SERVICES

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KEMRON REPORT  
Results by Sample

Work Order # M9-06-166

SAMPLE ID ABF 001

K890613-2

FRACTION 01A

TEST CODE M8240

NAME Volatile Organics

Date & Time Collected 06/09/89 12:08:00

Category WATER

ANALYST: FSA  
INSTRMT: FINN2

FILE #: 20E7197  
INJECTD: 06/15/89 FACTOR:

1 UNITS:

ug/L

VERIFIED: DMD

CAS#	COMPOUND	RESULT	DET LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene chloride	BDL	5
67-64-1	Acetone	BDL	10
75-15-0	Carbon disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
540-59-0	1,2-Dichloroethene (total)	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	10
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon tetrachloride	BDL	5
108-05-4	Vinyl acetate	BDL	10
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
110-75-8	2-Chloroethyl vinyl ether	BDL	10
75-25-2	Bromoform	BDL	5
591-78-6	2-Hexanone	BDL	10
108-10-1	4-Methyl-2-pentanone	BDL	10
127-18-4	Tetrachloroethene	BDL	5

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON ENVIRONMENTAL SERVICES

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KEMRON  
Results by Sample

Work Order # M9-06-166  
Continued From Above

SAMPLE ID ASF 001      K890613-2      FRACTION 01A      TEST CODE M8240      NAME Volatile Organics  
Date & Time Collected 06/09/89 12:08:00      Category WATER

CAS#	COMPOUND	RESULT	DET LIMIT
108-88-3	Toluene	BDL	5
79-34-5	1,1,2,2,-Tetrachloroethane	BDL	5
108-90-7	Chlorobenzene	8	5
100-41-4	Ethyl benzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (Total)	12	5

SURROGATES	
1,2-Dichloroethane-d4	<u>97</u> % Recovery
Toluene-d8	<u>98</u> % Recovery
p-Bromofluorobenzene	<u>93</u> % Recovery

NOTES AND DEFINITIONS FOR THIS REPORT  
DET LIMIT = DETECTION LIMIT  
BDL = BELOW DETECTION LIMIT  
\* = SEMI-QUANTITATIVE SCREEN ONLY

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KEMRON REPORT  
Results by Sample

Work Order # M9-06-166

SAMPLE ID <u>ASF 002</u>		<u>K890613-2</u>		SAMPLE # <u>02</u>		FRACTIONS: <u>A,B</u>					
Date & Time Collected <u>06/09/89 12:29:00</u>				Category <u>WATER</u>							
AG	<u>&lt;0.01</u>	AS	<u>0.02</u>	BA	<u>0.30</u>	CD	<u>0.01</u>	CR	<u>0.2</u>	HG	<u>0.001</u>
	mg/l Ag		mg/l As		mg/l Ba		mg/l Cd		mg/l Cr		mg/l Hg
PB_FU	<u>0.03</u>	SE	<u>&lt;0.004</u>								
	mg/l Pb		mg/l Se								

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KEMRON REPORT  
Results by Sample

Work Order # M9-06-166

SAMPLE ID ASF 002 K890613-2 FRACTION 02A TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 12:29:00 Category WATER

ANALYST: JLJ  
INSTRMT: FINN2

FILE #: 20E7199  
INJECTD: 06/15/89 FACTOR: 1 UNITS: ug/L VERIFIED: DMD

CAS#	COMPOUND	RESULT	DET LIMIT
74-87-3	Chloromethane	BDL	10
74-83-9	Bromomethane	BDL	10
75-01-4	Vinyl chloride	BDL	10
75-00-3	Chloroethane	BDL	10
75-09-2	Methylene chloride	BDL	5
67-64-1	Acetone	490000	10
75-15-0	Carbon disulfide	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
540-59-0	1,2-Dichloroethene (total)	BDL	5
67-66-3	Chloroform	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
78-93-3	2-Butanone	BDL	10
71-55-6	1,1,1-Trichloroethane	BDL	5
56-23-5	Carbon tetrachloride	BDL	5
108-05-4	Vinyl acetate	BDL	10
75-27-4	Bromodichloromethane	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
79-01-6	Trichloroethene	BDL	5
124-48-1	Dibromochloromethane	BDL	5
79-00-5	1,1,2-Trichloroethane	BDL	5
71-43-2	Benzene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
110-75-8	2-Chloroethyl vinyl ether	BDL	10
75-25-2	Bromoform	BDL	5
591-78-6	2-Hexanone	BDL	10
108-10-1	4-Methyl-2-pentanone	BDL	10
127-18-4	Tetrachloroethene	BDL	5

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON  
Results by Sample

Work Order # M9-06-166  
Continued From Above

SAMPLE ID ASF 002 K890613-2 FRACTION 02A TEST CODE M8240 NAME Volatile Organics  
Date & Time Collected 06/09/89 12:29:00 Category WATER

CAS#	COMPOUND	RESULT	DET LIMIT
108-88-3	Toluene	BDL	5
79-34-5	1,1,2,2,-Tetrachloroethane	BDL	5
108-90-7	Chlorobenzene	15	5
100-41-4	Ethyl benzene	BDL	5
100-42-5	Styrene	BDL	5
1330-20-7	Xylenes (Total)	BDL	5

SURROGATES	
1,2-Dichloroethane-d4	<u>85</u> % Recovery
Toluene-d8	<u>94</u> % Recovery
p-Bromofluorobenzene	<u>78</u> % Recovery

NOTES AND DEFINITIONS FOR THIS REPORT  
DET LIMIT = DETECTION LIMIT  
BDL = BELOW DETECTION LIMIT  
\* = SEMI-QUANTITATIVE SCREEN ONLY

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON REPORT  
Results by Sample

Work Order # M9-06-166

SAMPLE ID	ABF 007	K890613-2	SAMPLE #	03	FRACTIONS:	A
			Date & Time Collected	06/09/89 14:00:00		
			Category	SOLID		
CN	<0.01 *	F	0.3 *	PHENOL	<0.001 *	
	mg/l CN		mg/l F		mg/l Phenol	

\*Analysis performed on Ohio EPA DI EP-Toxicity Leachate.

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DIV. of SOLID & HAZ. WASTE MGT

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KEMRON  
Results by Sample

Work Order # M9-06-166

SAMPLE ID ASF 007 K890613-2 FRACTION 03A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/09/89 14:00:00 Category SOLID

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.18	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	<0.001	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON  
REPORT  
Results by Sample

Work Order # M9-06-166

SAMPLE ID	ASF 008	K890613-2	SAMPLE #	04	FRACTIONS:	A
			Date & Time Collected	06/09/89 14:15:00		
			Category	SOLID		
CN	<0.01 *	F	0.2 *	PHENOL	<0.001 *	
	mg/l CN		mg/l F		mg/l Phenol	

\*Analysis performed on Ohio EPA DI EP-Toxicity Leachate.

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON REPORT  
Results by Sample

Work Order # M9-06-166

SAMPLE ID ASF 008 K890613-2 FRACTION 04A TEST CODE EP MET NAME EP Toxicity Metals  
Date & Time Collected 06/09/89 14:15:00 Category SOLID

EP TOXICITY TEST

UNITS: MG/L

VERIFIED: RJW

EPA#	CONTAMINANT	RESULT	RCRA LIMIT
D004	Arsenic	<0.04	5.0
D005	Barium	0.1	100.0
D006	Cadmium	<0.01	1.0
D007	Chromium	<0.02	5.0
D008	Lead	<0.2	5.0
D009	Mercury	<0.001	0.2
D010	Selenium	<0.04	1.0
D011	Silver	<0.04	5.0

NOTES AND DEFINITIONS FOR THIS REPORT.  
NA = NOT ANALYZED

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DIV. of SOLID & HAZ. WASTE MGT.

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KEMRON REPORT  
Test Methodology

Work Order # M9-06-166

TEST CODE AG NAME Silver, Total  
EPA Method 200.7 (ICP) or 272.1 (AA - Direct Aspiration)

TEST CODE AS NAME Arsenic, Total  
EPA Method 206.3 (AA Vapor Hydride)

TEST CODE BA NAME Barium, Total  
EPA Method 200.7 - (ICAP) or 208.1 (AA - Direct Aspiration)

TEST CODE CD NAME Cadmium, Total  
EPA Method 200.7 (ICP) or 213.1 (AA - Direct Aspiration)

TEST CODE CN NAME Cyanide, Total  
EPA Method 335.2 Reflux, Spectrophotometric, Titrimetric

TEST CODE CR NAME Chromium, Total  
EPA Method 200.7 (ICP) or 218.1 (AA - Direct Aspiration)

TEST CODE EP\_MET NAME EP Toxicity Metals  
EPA Method 1310 (SW-846)

TEST CODE F NAME Fluoride  
EPA Method 340.2 Fluoride Electrode

TEST CODE HG NAME Mercury, Total  
EPA Method 245.1 (Cold Vapor)

TEST CODE M8240 NAME Volatile Organics  
EPA Method 8240 Volatile Organics - Purge and Trap

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KEMRON REPORT  
Test Methodology

Work Order # M9-06-166

TEST CODE PB\_FU NAME Lead, Total

EPA Method 239.2 AA Graphite Furnace

TEST CODE PHENOL NAME Phenolics, Total

EPA Method 420.1 Spectrophotometric Manual 4-AAP  
with distillation

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# CHAIN-OF-CUSTODY RECORD

Turn Around Requirements: 30 DAYS

Project No.: Project Name:  
K890613-2 AMERICAN STEEL FOUNDRIES

K. Bonzo

Signature: Kenneth B...

Sample I.D. No.	Comp	Grab	Date	Time	Sample Location
--------------------	------	------	------	------	-----------------

ASF001	X	6/9/89	12:08	BASE FILL AREA
ASF002	X	"	12:29	BASE FILL AREA
ASF007	X	"	14:00	TOP FILL AREA
ASF008	X	"	14:15	TOP FILL AREA

[illegible]

VOA		% SOLIDS	
1	100	100	100
2	100	100	100
3	100	100	100
4	100	100	100
5	100	100	100
6	100	100	100
7	100	100	100
8	100	100	100
9	100	100	100
10	100	100	100
11	100	100	100
12	100	100	100
13	100	100	100
14	100	100	100
15	100	100	100
16	100	100	100
17	100	100	100
18	100	100	100
19	100	100	100
20	100	100	100
21	100	100	100
22	100	100	100
23	100	100	100
24	100	100	100
25	100	100	100
26	100	100	100
27	100	100	100
28	100	100	100
29	100	100	100
30	100	100	100
31	100	100	100
32	100	100	100
33	100	100	100
34	100	100	100
35	100	100	100
36	100	100	100
37	100	100	100
38	100	100	100
39	100	100	100
40	100	100	100
41	100	100	100
42	100	100	100
43	100	100	100
44	100	100	100
45	100	100	100
46	100	100	100
47	100	100	100
48	100	100	100
49	100	100	100
50	100	100	100
51	100	100	100
52	100	100	100
53	100	100	100
54	100	100	100
55	100	100	100
56	100	100	100
57	100	100	100
58	100	100	100
59	100	100	100
60	100	100	100
61	100	100	100
62	100	100	100
63	100	100	100
64	100	100	100
65	100	100	100
66	100	100	100
67	100	100	100
68	100	100	100
69	100	100	100
70	100	100	100
71	100	100	100
72	100	100	100
73	100	100	100
74	100	100	100
75	100	100	100
76	100	100	100
77	100	100	100
78	100	100	100
79	100	100	100
80	100	100	100
81	100	100	100
82	100	100	100
83	100	100	100
84	100	100	100
85	100	100	100
86	100	100	100
87	100	100	100
88	100	100	100
89	100	100	100
90	100	100	100
91	100	100	100
92	100	100	100
93	100	100	100
94	100	100	100
95	100	100	100
96	100	100	100
97	100	100	

ACID EXTRACT:  
BASE/NE:

EXTRACT.  
BASE/NEUTR. EXT.  
EP TOX.-MET.  
EP

TOX.-METALS  
EP TOX

TOT. MET.

TOT. METALS-P.P.L.

PCBs  
PFOA

PESTICIDES  
PHC

PHCS

PHENOL

W.P. T. 70N-7.

~~TOX. METALS~~

~~SECRET~~  
D-1 EXTRA  
PAINFULS  
FLUORIDE

### ADDITIONAL REQUIREMENTS

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DIV. of SOLID & HAZ. WASTE MGT.

Relinquished by:  
(Signature)

Date \_\_\_\_\_

Time

Received by:-  
(Signature),

Relinquished by:  
(Signature)

Date \_\_\_\_\_

Time

Received by:  
(Signature)

Relinquished by:  
(Signature)

Date \_\_\_\_\_

Time

Received for Laboratory  
by: (Signature)

Date \_\_\_\_\_

Time

Remarks:

Remarks: ~~A~~ Samples rec. in good cond.  
w/ seal intact

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/08/89

Parameter	Units	Analyst	REFERENCE STANDARD			DUPLICATE SAMPLE			Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
PHENOLICS	mg/l	PNW	0.05	0.053	0.067	0.04	0.001	0.001	0	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)  
LCLx = Lower Control Limit (Standard)  
UCLr = Upper Control Limit (Range)  
\* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/08/89

Parameter	Units	Analyst	METHOD BLANK	MATRIX/MEDIA SPIKE					
			Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
PHENOLICS	mg/l	PNW	0.001	*	0.5	0.485	97	*	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection



## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/06/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range UCLr	
			Known	Result	UCLx	LCLx	Result1	Result2		
MOLYBDENUM-ICP	mg/l	JKM	1	1.01	*	*	0.092	0.096	0.004	*
TITANIUM-ICP	mg/l	JKM	5	4.76	*	*	0.14	0.145	0.005	*
ALUMINUM-ICP	mg/l	JKM	1	1.1	1.307	0.881	0.012	0.007	0.005	*
BARIUM-ICP	mg/l	JKM	1.02	1	1.106	0.908	0	0.001	0.001	*
CALCIUM-ICP	mg/l	JKM	10.1	10.2	10.759	9.595	317.5	325	7.5	*
CADMIUM-ICP	mg/l	JKM	1	0.983	0.993	0.921	0	0	0	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.04	1.067	0.977	0	0.001	0.001	*
IRON-ICP	mg/l	JKM	1.04	1	1.134	0.96	0.004	0.011	0.007	*
MAGNESIUM-ICP	mg/l	JKM	10	10.1	11.114	9.752	134.25	135	0.75	*
MANGANESE-ICP	mg/l	JKM	1.04	1.06	1.083	1.023	0.001	0	0.001	*
SODIUM-ICP	mg/l	JKM	10.1	10	*	*	0.037	0.04	0.003	*
ZINC-ICP	mg/l	JKM	1	0.874	*	*	0.003	0.006	0.003	*
TOTAL SOLIDS	mg/l	SMC	500	506	527	477	488	494	6	*
TDS	mg/l	SMC	500	488	543	457	366	420	54	*
TSS	mg/l	JKM	50	55	59	43	3	<1	3	*
CYANIDE	mg/l	WW	0.2	0.151	0.213	0.14	0.01	0.01	0	*
OIL AND GREASE	mg/l	MET	10	10.6	10.2	8.4	10	7.9	2.1	*

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DIV OF SOLID &amp; HAZ WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/06/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
MOLYBDENUM-ICP	mg/l	JKM	0.013	*	5	5.05	101	*	*
TITANIUM-ICP	mg/l	JKM	0.008	*	5	4.59	92	*	*
ALUMINUM-ICP	mg/l	JKM	-0.003	*	1	0.94	94	*	*
BARIUM-ICP	mg/l	JKM	0.006	*	1	0.976	98	*	*
CALCIUM-ICP	mg/l	JKM	-0.003	*	10.1	8.1	80	*	*
CADMIUM-ICP	mg/l	JKM	0.002	*	1	0.993	99	*	*
CHROMIUM-ICP	mg/l	JKM	0.001	*	1.02	1.045	102	*	*
IRON-ICP	mg/l	JKM	-0.011	*	1.04	0.9	87	*	*
MAGNESIUM-ICP	mg/l	JKM	-0.019	*	10	9.3	93	*	*
MANGANESE-ICP	mg/l	JKM	0.001	*	1.04	0.88	85	*	*
SODIUM-ICP	mg/l	JKM	0.015	*	10.1	8.3	82	*	*
ZINC-ICP	mg/l	JKM	0.002	*	1	0.852	85	*	*
TOTAL SOLIDS	mg/l	SMC	16	*	500	524	105	*	*
TDS	mg/l	SMC	-2	*	500	515	103	*	*
TSS	mg/l	JKM	-4	*	50	55	110	*	*
CYANIDE	mg/l	WMW	0.001	*	0.2	0.188	94	*	*
OIL AND GREASE	mg/l	MET	0	*	10	7.9	79	*	*

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DIV of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/10/89

## METHOD BLANK

## MATRIX/MEDIA SPIKE

Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
STRONTIUM-AA	mg/l	JKM	0	*	1	0.956	96	*	*
CONDUCTIVITY	Us/cm	SMC	0.75	*	---	---	---	*	*
SODIUM-AA	mg/l	JKM	-0.1	*	10.1	10.2	101	*	*
POTASSIUM-AA	mg/l	JKM	0.0005	*	1.01	1.035	102	*	*
HARDNESS	mg/l	SMC	0	*	50	50	100	*	*
COD	mg/l	DIH	1	*	32	33.8	106	*	*
COLOR	units	DIH	5	*	10	10	100	*	*
FLUORIDE	mg/l	DIH	0.05	*	0.4	0.39	98	*	*
SULFATE	mg/L	WMW	2	*	10	11.9	119	*	*
CHLORIDE	mg/L	WMW	0.2	*	20	22	110	*	*
LEAD-FURNACE	mg/L	JKM	0.0005	*	0.051	0.048	94	*	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/10/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
STRONTIUM-AA	mg/l	JKM	1	1.01	*	*	0.60111	0.591	0.01011	*
CONDUCTIVITY	Us/cm	SMC	1413	1391	1430	1390	1400	1400	0	*
SODIUM-AA	mg/l	JKM	10.1	9.5	*	*	108	113.7	5.7	*
POTASSIUM-AA	mg/l	JKM	1.01	1.057	*	*	0.082	0.0776	0.0044	*
HARDNESS	mg/l	SMC	100	102	102	98.7	2.4	2.4	0	*
COD	mg/l	DIH	320	322	353	285	---	---	---	*
COLOR	units	DIH	20	20	20	20	5	5	0	*
FLUORIDE	mg/l	DIH	2	2.1	2.25	1.88	0.2	0.2	0	*
SULFATE	mg/L	WMW	20	18	25.3	16.2	---	---	0	*
CHLORIDE	mg/L	WMW	20	22.5	21.2	19.3	31	31	0	*
LEAD-FURNACE	mg/L	JKM	0.051	0.051	*	*	0.03	0.04	0.01	*

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JUL 21 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection



EMRON ENVIRONMENTAL SERVICES

CHAIN-OF-CUSTODY RECORD

Turn Around Requirements: 30 DAYS

Page 1 of 1

Project No.: 97014 Project Name: AMERICAN STEEL FOUNDRIES  
Sampler (print): KIM COLEMAN Signature: [Signature]  
EVIN BOWEN

Sample I.D. No.	Comp	Grab	Date	Time	Sample Location
1001F	X		4/30/89	13:50	FINES AT FILL EDGE
1011F	X		4/30/89	14:00	FINES SE COR FILL
1021F	X		4/30/89	14:00	SLUDGE AT TIP AREA
1034F	X		6/30/89	17:20	FILL S. EDGE

NUMBER OF SAMPLES	% SOLIDS	VOA	ACID EXTRACT.	BASE/NEUTR.	EP TOX.-METALS	EP TOX.-METALS	TOT. METALS-ORGAN.	TOT. METALS-P.P.L.	PCBS	PESTICIDES	PHCS	PHENOL	ADDITIONAL REQUIREMENTS
1					X								(ALL E.P. TOX METALS EXCEPT Hg)
1					X								
1					X								
1					X								

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OHIO EPA

JUL 24 1989

DIV. of SOLID & HAZ. WASTE MGT.

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>7/6/89</u>	Time <u>9:15</u>	Received by: (Signature) <u>[Signature]</u>	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received for Laboratory by: (Signature)	Date	Time	Remarks: <u>Ⓢ Samples rec. in good cond. w/ Seal intact. etc</u>	

KEMRON Environmental Services  
QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/14/89

Parameter	Units	Analyst	REFERENCE STANDARD			DUPLICATE SAMPLE			Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
IRON-ICP	mg/l	JKM	1.04	1.04	1.24	0.972	0.129	0.144	0.015	*
SULFATE	mg/l	WMW	20	19	25.3	16.2	48	48	0	*
MERCURY-CV	mg/l	JKM	0.01	0.0109	0.013	0.007	0	0	0	*
TIN-FURNACE	mg/l	JKM	0.05	0.054	*	*	0	0.001	0.001	*
PHENOLICS	mg/l	DIH	0.5	0.482	0.55	0.451	1.1	0.95	0.15	*
ALUMINUM-ICP	mg/l	JKM	1	1.1	1.34	0.983	0.181	0.2	0.019	*
ANTIMONY-ICP	mg/l	JKM	1	0.973	1.137	0.909	0.021	0.013	0.008	*
BARIUM-ICP	mg/l	JKM	1.02	0.975	*	*	0.026	0.025	0.001	*
CALCIUM-ICP	mg/l	JKM	10.1	10	10.7	9.71	22	21.05	0.95	*
CADMIUM-ICP	mg/l	JKM	1	0.942	*	*	0	0	0	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.01	*	*	0.011	0.011	0	*
COPPER-ICP	mg/l	JKM	1.02	1.02	*	*	0.004	0.004	0	*
IRON-ICP	mg/l	JKM	1.04	1.04	1.24	0.972	0.084	0.077	0.007	*
MAGNESIUM-ICP	mg/l	JKM	10	10.8	11	9.93	14.722	14.25	0.472	*
MANGANESE-ICP	mg/l	JKM	1.04	1.06	1.097	1.007	0.005	0.005	0	*
NICKEL-ICP	mg/l	JKM	1	0.997	*	*	0.003	0.001	0.002	*
SILVER-ICP	mg/l	JKM	0.2	0.164	*	*	-0.001	0	0.001	*
SODIUM-ICP	mg/l	JKM	10.1	10	*	*	27.194	26.25	0.944	*
ZINC-ICP	mg/l	JKM	1	0.861	*	*	0.024	0.027	0.003	*
BOD	mg/l	SMC/DIH	200	197	237	167	790	840	50	*

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)  
LCLx = Lower Control Limit (Standard)  
UCLr = Upper Control Limit (Range)  
\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/14/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
IRON-ICP	mg/l	JKM	0.007	*	1.04	1.07	103	*	*
SULFATE	mg/l	WMM	0	*	10	8.4	84	*	*
MERCURY-CV	mg/l	JKM	0	*	0.01	0.0101	101	*	*
TIN-FURNACE	mg/l	JKM	0	*	0.05	0.039	78	*	*
PHENOLICS	mg/l	DIH	0.001	*	0.5	0.486	97	*	*
ALUMINUM-ICP	mg/l	JKM	0.003	*	1	0.928	93	*	*
ANTIMONY-ICP	mg/l	JKM	0.021	*	1	0.859	86	*	*
BARIUM-ICP	mg/l	JKM	0.007	*	1.02	0.863	85	*	*
CALCIUM-ICP	mg/l	JKM	0.023	*	10.1	8	79	*	*
CADMIUM-ICP	mg/l	JKM	0.002	*	1	0.85	85	*	*
CHROMIUM-ICP	mg/l	JKM	0.001	*	1.02	0.933	91	*	*
COPPER-ICP	mg/l	JKM	0.003	*	1.02	0.881	86	*	*
IRON-ICP	mg/l	JKM	0.006	*	1.04	0.907	87	*	*
MAGNESIUM-ICP	mg/l	JKM	0.018	*	10	11.8	118	*	*
MANGANESE-ICP	mg/l	JKM	0.002	*	1.04	0.946	91	*	*
NICKEL-ICP	mg/l	JKM	0.003	*	1	0.864	86	*	*
SILVER-ICP	mg/l	JKM	-0.001	*	0.2	0.157	79	*	*
SODIUM-ICP	mg/l	JKM	0.031	*	10.1	9.1	90	*	*
ZINC-ICP	mg/l	JKM	0.007	*	1	0.875	88	*	*
BOD	mg/l	SMC/DIH	0.6	*	200	203	102	*	*

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OHIO EPA

JUL 12 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/15/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
COD	mg/l	DIH	64	68.2	76.8	51.2	520	580	60	*
TOC	mg/l	DIH	50	51.6	53.4	46.4	160	160	0	*
CYANIDE	mg/l	DIH	0.2	0.176	0.213	0.14	---	---	---	*
CHROMIUM VI	mg/l	SMC	0.1	0.098	0.104	0.082	0.01	0.01	0	*
MERCURY-CV	mg/l	JKM	0.01	0.0114	0.013	0.007	0	0	0	*
BARIUM-ICP	mg/l	JKM	1.02	0.984	*	*	0.029	0.028	0.001	*
CADMIUM-ICP	mg/l	JKM	1	0.957	*	*	0.001	0	0.001	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.02	*	*	0.012	0.012	0	*
SILVER-ICP	mg/l	JKM	0.2	0.175	*	*	0.001	0	0.001	*
OIL AND GREASE	mg/l	SMC	10	7.9	10.2	8.4	8	8	0	*
ARSENIC-VH	mg/l	JKM	0.051	0.0481	*	*	0.0007	0.0008	0.0001	*
LEAD-FLAME	mg/l	JKM	1.02	1.02	*	*	-0.01	-0.0125	0.0025	*
AMMONIA	mg/l	WMW	10	9.91	10.7	9.2	0	0	0	*

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JUL 12 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)  
 LCLx = Lower Control Limit (Standard)  
 UCLr = Upper Control Limit (Range)  
 \* = Initial Data Collection



## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/15/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
COD	mg/l	DIH	1	*	160	215	134	*	*
TOC	mg/l	DIH	0.08	*	25	18.1	72	*	*
CYANIDE	mg/l	DIH	0.001	*	---	---	---	*	*
CHROMIUM VI	mg/l	SMC	0.01	*	0.1	0.098	98	*	*
MERCURY-CV	mg/l	JKM	-0.0002	*	0.01	0.0113	113	*	*
BARIUM-ICP	mg/l	JKM	0.012	*	1.02	1.007	99	*	*
CADMIUM-ICP	mg/l	JKM	0.002	*	1	1.013	101	*	*
CHROMIUM-ICP	mg/l	JKM	0	*	1.02	1.084	106	*	*
SILVER-ICP	mg/l	JKM	-0.002	*	0.2	0.19	95	*	*
OIL AND GREASE	mg/l	SMC	1.6	*	10	7.7	77	*	*
ARSENIC-VH	mg/l	JKM	0.00025	*	0.051	0.0493	97	*	*
LEAD-FLAME	mg/l	JKM	0.02	*	1.02	0.96	94	*	*
AMMONIA	mg/l	WMW	0	*	10	10.2	102	*	*

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/19/89

Parameter	Units	Analyst	REFERENCE STANDARD			DUPLICATE SAMPLE			Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
PHOSPHORUS	mg/l	DIH	1	0.973	1.19	0.78	0.23	0.16	0.07	*
NITRATE	mg/l	DIH	0.25	0.248	0.293	0.2	2.9	3	0.1	*
TPH	mg/l	DHT	100	104	*	*	200	210	10	*
ALUMINUM-ICP	mg/l	JKM	1	1.02	1.34	0.983	0.461	0.45	0.011	*
ANTIMONY-ICP	mg/l	JKM	1	1.05	1.137	0.909	0.04	0.007	0.033	*
BARIUM-ICP	mg/l	JKM	1.02	0.965	*	*	0.069	0.074	0.005	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.26	*	*	0	0	0	*
CADMIUM-ICP	mg/l	JKM	1	0.959	*	*	0.001	0	0.001	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.04	*	*	0.005	0.005	0	*
COPPER-ICP	mg/l	JKM	1.02	0.968	*	*	0.172	0.186	0.014	*
IRON-ICP	mg/l	JKM	1.04	1	1.24	0.972	1.042	0.918	0.124	*
MANGANESE-ICP	mg/l	JKM	1.04	1.04	1.097	1.007	0.048	0.043	0.005	*
NICKEL-ICP	mg/l	JKM	1	0.98	*	*	0	-0.002	0.002	*
SILVER-ICP	mg/l	JKM	0.2	0.17	*	*	-0.004	0	0.004	*
SODIUM-ICP	mg/l	JKM	10.1	9.86	*	*	32.25	33.25	1	*
ZINC-ICP	mg/l	JKM	1	0.857	*	*	0.825	0.708	0.117	*

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JUL 12 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)  
 LCLx = Lower Control Limit (Standard)  
 UCLr = Upper Control Limit (Range)  
 \* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/19/89

Parameter	Units	METHOD BLANK		MATRIX/MEDIA SPIKE					
		Analyst	Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
PHOSPHORUS	mg/l	DIH	0.02	*	0.5	0.434	87	*	*
NITRATE	mg/l	DIH	0.026	*	0.25	0.229	92	*	*
TPH	mg/l	DHT	0	*	50	45.5	91	*	*
ALUMINUM-ICP	mg/l	JKM	0.007	*	1	0.996	100	*	*
ANTIMONY-ICP	mg/l	JKM	-0.017	*	1	1.02	102	*	*
BARIUM-ICP	mg/l	JKM	0.005	*	1.02	0.961	94	*	*
BERYLLIUM-ICP	mg/l	JKM	0	*	1.26	1.16	92	*	*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	0.925	93	*	*
CHROMIUM-ICP	mg/l	JKM	0	*	1.02	1.027	101	*	*
COPPER-ICP	mg/l	JKM	0.003	*	1.02	0.971	95	*	*
IRON-ICP	mg/l	JKM	0.003	*	1.04	0.9	87	*	*
MANGANESE-ICP	mg/l	JKM	0	*	1.04	1.027	99	*	*
NICKEL-ICP	mg/l	JKM	-0.01	*	1	0.942	94	*	*
SILVER-ICP	mg/l	JKM	0.001	*	0.2	0.164	82	*	*
SODIUM-ICP	mg/l	JKM	0.052	*	10.1	9.7	96	*	*
ZINC-ICP	mg/l	JKM	0.004	*	1	0.828	83	*	*

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JUL 12 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

KEMRON Environmental Services  
QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/20/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
CYANIDE	mg/l	DIH	0.2	0.192	0.213	0.14	0.01	0.01	0	*
CADMIUM-ICP	mg/l	JKM	1	0.966	*	*	0.003	0.001	0.002	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.03	*	*	0.014	0.013	0.001	*
BARIUM-ICP	mg/l	JKM	1.02	1.01	*	*	0.1	0.097	0.003	*
SILVER-ICP	mg/l	JKM	0.2	0.178	*	*	0.017	0.017	0	*
LEAD-ICP	mg/l	JKM	1.02	1.03	*	*	0.025	0.017	0.008	*
LEAD-FURNACE	mg/l	JKM	0.051	0.047	*	*	0.03889	0.037	0.00189	*
TSS	mg/l	SMC	50	55	59	43	26	28	2	*
TDS	mg/l	SMC	500	490	543	457	960	1000	40	*
TOTAL SOLIDS	mg/l	SMC	500	506	527	477	300	300	0	*

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)  
LCLx = Lower Control Limit (Standard)  
UCLr = Upper Control Limit (Range)  
\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/20/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec. (%)	UCLs (%)	LCLs (%)
CYANIDE	mg/l	DIH	0.002	*	0.2	0.247	124	*	*
CADMIUM-ICP	mg/l	JKM	0.003	*	1	0.94	94	*	*
CHROMIUM-ICP	mg/l	JKM	0.002	*	1.02	0.981	96	*	*
BARIUM-ICP	mg/l	JKM	0.003	*	1.02	0.958	94	*	*
SILVER-ICP	mg/l	JKM	0	*	0.2	0.169	85	*	*
LEAD-ICP	mg/l	JKM	0.014	*	1.02	0.99	97	*	*
LEAD-FURNACE	mg/l	JKM	0.0005	*	0.051	0.039	76	*	*
TSS	mg/l	SMC	-4	*	50	51	102	*	*
TDS	mg/l	SMC	0	*	500	540	108	*	*
TOTAL SOLIDS	mg/l	SMC	110	*	500	516	103	*	*

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JUL 12 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
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 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/21/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE			
			Known	Result	UCLx	LCLx	Result1	Result2	Range	UCLr
SELENIUM-VH	mg/l	JKM	0.05	0.0505	0.058	0.04	0.0001	0.0003	0.0002	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.24	*	*	0.001	0.001	0	*
SULFATE	mg/l	WMW	20	22	25.3	16.2	74	70	4	*
CADMIUM-ICP	mg/l	JKM	1	0.965	*	*	0.001	0.001	0	*
ARSENIC-VH	mg/l	JKM	0.051	0.0477	*	*	0.0088	0.0103	0.0015	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.04	*	*	0.028	0.025	0.003	*
LEAD-ICP	mg/l	JKM	1.02	1	*	*	0.053	0.059	0.006	*
COPPER-ICP	mg/l	JKM	1.02	0.992	*	*	0.422	0.415	0.007	*
ANTIMONY-ICP	mg/l	JKM	1	1	1.137	0.909	0.009	-0.004	0.013	*
IRON-ICP	mg/l	JKM	1.04	1.01	1.24	0.972	0.388	0.31	0.078	*
PHENOLICS	mg/l	DIH	0.5	0.506	0.55	0.451	4	4.5	0.5	*
NICKEL-ICP	mg/l	JKM	1	0.979	*	*	0.056	0.052	0.004	*
ALUMINUM-ICP	mg/l	JKM	1	1.08	1.34	0.983	10.694	10.125	0.569	*
THALLIUM-FURNACE	mg/l	JKM	0.05	0.051	*	*	-0.0022	-0.002	0.00022	*
BARIUM-ICP	mg/l	JKM	1.02	0.981	*	*	0.127	0.136	0.009	*
SILVER-ICP	mg/l	JKM	0.2	0.172	*	*	0	0.002	0.002	*
ZINC-ICP	mg/l	JKM	1	0.858	*	*	0.469	0.445	0.024	*
BOD	mg/l	SMC	200	197	237	167	<3	<3	0	*

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OHIO EPA

JUL 12 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/21/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
SELENIUM-VH	mg/l	JKM	-0.0001	*	0.05	0.0495	99	*	*
BERYLLIUM-ICP	mg/l	JKM	0	*	1.26	1.169	93	*	*
SULFATE	mg/l	WMW	2	*	10	12.9	129	*	*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	0.885	89	*	*
ARSENIC-VH	mg/l	JKM	0.0001	*	0.051	0.0513	101	*	*
CHROMIUM-ICP	mg/l	JKM	0.001	*	1.02	0.975	96	*	*
LEAD-ICP	mg/l	JKM	0.008	*	1.02	1.004	98	*	*
COPPER-ICP	mg/l	JKM	0.001	*	1.02	0.99	97	*	*
ANTIMONY-ICP	mg/l	JKM	-0.004	*	1	0.923	92	*	*
IRON-ICP	mg/l	JKM	-0.001	*	1.04	0.9	87	*	*
PHENOLICS	mg/l	DIH	0.001	*	0.5	0.474	95	*	*
NICKEL-ICP	mg/l	JKM	-0.011	*	1	0.928	93	*	*
ALUMINUM-ICP	mg/l	JKM	0.023	*	1	0.916	92	*	*
THALLIUM-FURNACE	mg/l	JKM	0	*	0.05	0.038	76	*	*
BARIUM-ICP	mg/l	JKM	0.004	*	1.02	0.924	91	*	*
SILVER-ICP	mg/l	JKM	-0.003	*	0.2	0.169	85	*	*
ZINC-ICP	mg/l	JKM	0.006	*	1	0.75	75	*	*
BOD	mg/l	SMC	0.4	*	200	189	95	*	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/22/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
BROMIDE	mg/l	DIH	40	41.5	*	*	1	1	0	*
TOC	mg/l	DIH	50	46.1	53.4	46.4	16	15	1	*
COD	mg/l	DIH	64	57.1	76.8	51.2	1	1	0	*
FLUORIDE	mg/l	DIH	2	2.03	2.25	1.88	0.3	0.3	0	*
AMMONIA	mg/l	WMW	10	9.9	10.7	9.2	1	1	0	*
MERCURY-CV	mg/l	JKM	0.01	0.0107	0.013	0.007	0.0002	0.0002	0	*
ALUMINUM-ICP	mg/l	JKM	1	1.01	1.34	0.983	5.82	6.04	0.22	*
BARIUM-ICP	mg/l	JKM	1.02	0.971	*	*	0.138	0.138	0	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.24	*	*	0	0.006	0.006	*
CALCIUM-ICP	mg/l	JKM	10.1	9.99	10.7	9.71	63.8	61.4	2.4	*
CADMIUM-ICP	mg/l	JKM	1	0.938	*	*	0	0.006	0.006	*
CHROMIUM-ICP	mg/l	JKM	1.02	1	*	*	0.014	0.014	0	*
COPPER-ICP	mg/l	JKM	1.02	1	*	*	0.474	0.458	0.016	*
IRON-ICP	mg/l	JKM	1.04	1.01	1.24	0.972	14.3	14.2	0.1	*
MAGNESIUM-ICP	mg/l	JKM	10	10.3	11	9.93	15.56	14.82	0.74	*
NICKEL-ICP	mg/l	JKM	1	0.971	*	*	0.0064	0.0066	0.0002	*
SODIUM-ICP	mg/l	JKM	10.1	10	*	*	37.4	36.8	0.6	*
ZINC-ICP	mg/l	JKM	1	0.833	*	*	0.61	0.544	0.066	*
TPH	mg/l	WMW	100	99.1	*	*	4000	3300	700	*
OIL AND GREASE	mg/l	SMC	10	8.9	10.2	8.4	8.1	8.9	0.8	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection



## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/22/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec. (%)	UCLs (%)	LCLs (%)
BROMIDE	mg/l	DIH	1	*	16	17.6	110	*	*
TOC	mg/l	DIH	0.2	*	25	18.3	73	*	*
COD	mg/l	DIH	1	*	32	27.1	85	*	*
FLUORIDE	mg/l	DIH	0.05	*	0.4	0.4	100	*	*
AMMONIA	mg/l	WMW	0	*	10	10	100	*	*
MERCURY-CV	mg/l	JKM	0	*	0.01	0.0097	97	*	*
ALUMINUM-ICP	mg/l	JKM	-0.009	*	1	0.93	93	*	*
BARIUM-ICP	mg/l	JKM	0.006	*	1.02	0.991	97	*	*
BERYLLIUM-ICP	mg/l	JKM	0	*	1.26	1.34	106	*	*
CALCIUM-ICP	mg/l	JKM	0.008	*	10.1	8.9	88	*	*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	1.04	104	*	*
CHROMIUM-ICP	mg/l	JKM	-0.001	*	1.02	1.083	106	*	*
COPPER-ICP	mg/l	JKM	0.002	*	1.02	1.003	98	*	*
IRON-ICP	mg/l	JKM	0.001	*	1.04	1.03	99	*	*
MAGNESIUM-ICP	mg/l	JKM	0.033	*	10	10.22	102	*	*
NICKEL-ICP	mg/l	JKM	-0.001	*	1	1.057	106	*	*
SODIUM-ICP	mg/l	JKM	0.024	*	10.1	10.1	100	*	*
ZINC-ICP	mg/l	JKM	0.004	*	1	0.875	88	*	*
TPH	mg/l	WMW	0	*	25	19.5	78	*	*
OIL AND GREASE	mg/l	SMC	0.3	*	10	8.1	81	*	*

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JUL 12 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 7/10/89

## METHOD BLANK

## MATRIX/MEDIA SPIKE

Parameter	Units	Analyst	Result	UCLb	Conc.	Recovery	Rec. (%)	UCLs (%)	LCLs (%)
MOLYBDENUM-ICP	mg/l	JKM	0.013	*	5	5.65	101	*	*
TITANIUM-ICP	mg/l	JKM	0.008	*	5	4.59	92	*	*
ALUMINUM-ICP	mg/l	JKM	-0.003	*	1	0.94	94	*	*
BARIUM-ICP	mg/l	JKM	0.006	*	1	0.976	98	*	*
CALCIUM-ICP	mg/l	JKM	-0.003	*	10.1	8.1	80	*	*
CADMIUM-ICP	mg/l	JKM	0.002	*	1	0.993	99	*	*
CHROMIUM-ICP	mg/l	JKM	0.001	*	1.02	1.045	102	*	*
IRON-ICP	mg/l	JKM	-0.011	*	1.04	0.9	87	*	*
MAGNESIUM-ICP	mg/l	JKM	-0.019	*	10	9.3	93	*	*
MANGANESE-ICP	mg/l	JKM	0.001	*	1.04	0.88	85	*	*
SODIUM-ICP	mg/l	JKM	0.015	*	10.1	8.3	82	*	*
ZINC-ICP	mg/l	JKM	0.002	*	1	0.852	85	*	*
TOTAL SOLIDS	mg/l	SMC	16	*	500	524	105	*	*
TDS	mg/l	SMC	-2	*	500	515	103	*	*
TSS	mg/l	JKM	-4	*	50	55	110	*	*
CYANIDE	mg/l	WAW	0.001	*	0.2	0.188	94	*	*

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JUL 12 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)

UCLs = Upper Control Limit (Spike Recovery)

LCLs = Lower Control Limit (Spike Recovery)

\* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/06/89

Parameter	Units	Analyst	REFERENCE STANDARD			DUPLICATE SAMPLE			Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
MOLYBDENUM-ICP	mg/l	JKM	1	1.01	*	*	0.092	0.096	0.004	*
TITANIUM-ICP	mg/l	JKM	5	4.76	*	*	0.14	0.145	0.005	*
ALUMINUM-ICP	mg/l	JKM	1	1.1	1.307	0.881	0.012	0.007	0.005	*
BARIUM-ICP	mg/l	JKM	1.02	1	1.106	0.908	0	0.001	0.001	*
CALCIUM-ICP	mg/l	JKM	10.1	10.2	10.759	9.595	317.5	325	7.5	*
CADMIUM-ICP	mg/l	JKM	1	0.983	0.993	0.921	0	0	0	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.04	1.067	0.977	0	0.001	0.001	*
IRON-ICP	mg/l	JKM	1.04	1	1.134	0.96	0.004	0.011	0.007	*
MAGNESIUM-ICP	mg/l	JKM	10	10.1	11.114	9.752	134.25	135	0.75	*
MANGANESE-ICP	mg/l	JKM	1.04	1.06	1.033	1.023	0.001	0	0.001	*
SODIUM-ICP	mg/l	JKM	10.1	10	*	*	0.037	0.04	0.003	*
ZINC-ICP	mg/l	JKM	1	0.874	*	*	0.003	0.006	0.003	*
TOTAL SOLIDS	mg/l	SMC	500	506	527	477	488	494	6	*
TDS	mg/l	SMC	500	488	543	457	366	420	54	*
TSS	mg/l	JKM	50	55	59	43	3	<1	3	*
CYANIDE	mg/l	WMW	0.2	0.151	0.213	0.14	0.01	0.01	0	*

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JUL 12 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

KENIRON Environmental Services

QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/06/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE			
			Known	Result	UCLx	LCLx	Result1	Result2	Range	UCLr
MOLYBDENUM-ICP	mg/l	JKM	1	1.01	*	*	0.092	0.096	0.004	*
TITANIUM-ICP	mg/l	JKM	5	4.76	*	*	0.14	0.145	0.005	*
ALUMINUM-ICP	mg/l	JKM	1	1.1	1.307	0.881	0.012	0.007	0.005	*
BARIUM-ICP	mg/l	JKM	1.02	1	1.106	0.908	0	0.001	0.001	*
CALCIUM-ICP	mg/l	JKM	10.1	10.2	10.759	9.595	317.5	325	7.5	*
CADMIUM-ICP	mg/l	JKM	1	0.983	0.993	0.921	0	0	0	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.04	1.067	0.977	0	0.001	0.001	*
IRON-ICP	mg/l	JKM	1.04	1	1.134	0.96	0.004	0.011	0.007	*
MAGNESIUM-ICP	mg/l	JKM	10	10.1	11.114	9.752	134.25	135	0.75	*
MANCANESE-ICP	mg/l	JKM	1.04	1.06	1.083	1.023	0.001	0	0.001	*
SODIUM-ICP	mg/l	JKM	10.1	10	*	*	0.037	0.04	0.003	*
ZINC-ICP	mg/l	JKM	1	0.874	*	*	0.003	0.006	0.003	*
TOTAL SOLIDS	mg/l	SHC	500	506	527	477	488	494	6	*
TDS	mg/l	SHC	500	488	513	457	366	420	54	*
TSS	mg/l	JKM	50	55	59	43	3	<1	3	*
CYANIDE	mg/l	WMW	0.2	0.151	0.213	0.14	0.01	0.01	0	*

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DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

# KEIRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 07/06/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE			
			Known	Result	UCLx	LCLx	Result1	Result2	Range	UCLr
MOLYBDENUM-ICP	mg/l	JKM	1	1.01	*	*	0.092	0.096	0.004	*
TITANIUM-ICP	mg/l	JKM	5	4.76	*	*	0.14	0.145	0.005	*
ALUMINUM-ICP	mg/l	JKM	1	1.1	1.307	0.881	3.012	0.007	0.005	*
BARIUM-ICP	mg/l	JKM	1.02	1	1.106	0.908	0	0.001	0.001	*
CALCIUM-ICP	mg/l	JKM	10.1	10.2	10.759	9.595	317.5	325	7.5	*
CADMIUM-ICP	mg/l	JKM	1	0.983	0.993	0.921	0	0	0	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.04	1.067	0.977	0	0.001	0.001	*
IRON-ICP	mg/l	JKM	1.04	1	1.134	0.96	0.004	0.011	0.007	*
MAGNESIUM-ICP	mg/l	JKM	10	10.1	11.114	9.752	134.25	135	0.75	*
MANGANESE-ICP	mg/l	JKM	1.04	1.06	1.033	1.023	0.001	0	0.001	*
SODIUM-ICP	mg/l	JKM	10.1	10	*	*	0.037	0.04	0.003	*
ZINC-ICP	mg/l	JKM	1	0.874	*	*	0.003	0.006	0.003	*
TOTAL SOLIDS	mg/l	SMC	530	506	527	477	488	494	6	*
TDS	mg/l	SMC	500	488	543	457	366	420	54	*
TSS	mg/l	JKM	50	55	59	43	3	<1	3	*
CYANIDE	mg/l	WMW	0.2	0.151	0.213	0.14	0.01	0.01	0	*

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JUL 12 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/27/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
MOLYBDENUM-ICP	mg/l	JKM	0.012	*	1	1.008	101	*	*
LEAD-FURNACE	mg/l	RSL	0.002	*	0.051	0.042	82	*	*
CYANIDE	mg/l	DIH	0.001	*	0.2	0.159	80	*	*
TIN-FURNACE	mg/l	JKM	0	*	0.05	0.054	108	*	*
ALUMINUM-ICP	mg/l	JKM	-0.005	*	1	1	100	*	*
ANTIMONY-ICP	mg/l	JKM	0.011	*	1	0.904	90	*	*
BARIUM-ICP	mg/l	JKM	-0.004	*	1.02	0.865	85	*	*
BERYLLIUM-ICP	mg/l	JKM	0	*	1.26	1.21	96	*	*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	0.922	92	*	*
CHROMIUM-ICP	mg/l	JKM	0	*	1.02	0.971	95	*	*
COPPER-ICP	mg/l	JKM	0	*	1.02	0.906	89	*	*
IRON-ICP	mg/l	JKM	-0.001	*	1.04	1.013	97	*	*
NICKEL-ICP	mg/l	JKM	-0.007	*	1	0.961	96	*	*
SILVER-ICP	mg/l	JKM	-0.001	*	0.2	0.179	90	*	*
ZINC-ICP	mg/l	JKM	0.004	*	1	0.849	85	*	*
TSS	mg/l	SMC	-4	*	50	52	104	*	*
TDS	mg/l	SMC	2	*	500	490	98	*	*

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JUL 26 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

KEMRON Environmental Services

QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/26/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
HARDNESS	mg/l.	SMC	100	101	102	98.7	680	690	10	*

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JUL 26 1989

DIV. of SOLID & HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)  
LCLx = Lower Control Limit (Standard)  
UCLr = Upper Control Limit (Range)  
\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/26/89

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Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
HARDNESS	mg/l	SMC	0	*	50	49	98	*	*

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DIV. of SOLID &amp; HAZ. WASTE MGT.

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UCLb = Upper Control Limit (Blank)  
UCLs = Upper Control Limit (Spike Recovery)  
LCLs = Lower Control Limit (Spike Recovery)  
\* = Initial Data Collection



## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/22/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
BROMIDE	mg/l	DIH	40	41.5	*	*	1	1	0	*
TOC	mg/l	DIH	50	46.1	53.4	46.4	16	15	1	*
COD	mg/l	DIH	64	57.1	76.8	51.2	1	1	0	*
FLUORIDE	mg/l	DIH	2	2.03	2.25	1.88	0.3	0.3	0	*
AMMONIA	mg/l	WMW	10	9.9	10.7	9.2	1	1	0	*
MERCURY-CV	mg/l	JKM	0.01	0.0107	0.013	0.007	0.0002	0.0002	0	*
ALUMINUM-ICP	mg/l	JKM	1	1.01	1.34	0.983	5.82	6.04	0.22	*
BARIUM-ICP	mg/l	JKM	1.02	0.971	*	*	0.138	0.138	0	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.24	*	*	0	0.006	0.006	*
CALCIUM-ICP	mg/l	JKM	10.1	9.99	10.7	9.71	63.8	61.4	2.4	*
CADMIUM-ICP	mg/l	JKM	1	0.938	*	*	0	0.006	0.006	*
CHROMIUM-ICP	mg/l	JKM	1.02	1	*	*	0.014	0.014	0	*
COPPER-ICP	mg/l	JKM	1.02	1	*	*	0.474	0.458	0.016	*
IRON-ICP	mg/l	JKM	1.04	1.01	1.24	0.972	14.3	14.2	0.1	*
MAGNESIUM-ICP	mg/l	JKM	10	10.3	11	9.93	15.56	14.82	0.74	*
NICKEL-ICP	mg/l	JKM	1	0.971	*	*	0.0064	0.0066	0.0002	*
SODIUM-ICP	mg/l	JKM	10.1	10	*	*	37.4	36.8	0.6	*
ZINC-ICP	mg/l	JKM	1	0.833	*	*	0.61	0.544	0.066	*
TPH	mg/l	WMW	100	99.1	*	*	4000	3300	700	*
OIL AND GREASE	mg/l	SMC	10	8.9	10.2	8.4	8.1	8.9	0.8	*

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JUL 26 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/22/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec. (%)	UCLs (%)	LCLs (%)
BROMIDE	mg/l	DIH	1	*	16	17.6	110	*	*
TOC	mg/l	DIH	0.2	*	25	18.3	73	*	*
COD	mg/l	DIH	1	*	32	27.1	85	*	*
FLUORIDE	mg/l	DIH	0.05	*	0.4	0.4	100	*	*
AMMONIA	mg/l	WMW	0	*	10	10	100	*	*
MERCURY-CV	mg/l	JKM	0	*	0.01	0.0097	97	*	*
ALUMINUM-ICP	mg/l	JKM	-0.009	*	1	0.93	93	*	*
BARIUM-ICP	mg/l	JKM	0.006	*	1.02	0.991	97	*	*
BERYLLIUM-ICP	mg/l	JKM	0	*	1.26	1.34	106	*	*
CALCIUM-ICP	mg/l	JKM	0.008	*	10.1	8.9	88	*	*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	1.04	104	*	*
CHROMIUM-ICP	mg/l	JKM	-0.001	*	1.02	1.083	106	*	*
COPPER-ICP	mg/l	JKM	0.002	*	1.02	1.003	98	*	*
IRON-ICP	mg/l	JKM	0.001	*	1.04	1.03	99	*	*
MAGNESIUM-ICP	mg/l	JKM	0.033	*	10	10.22	102	*	*
NICKEL-ICP	mg/l	JKM	-0.001	*	1	1.057	106	*	*
SODIUM-ICP	mg/l	JKM	0.024	*	10.1	10.1	100	*	*
ZINC-ICP	mg/l	JKM	0.004	*	1	0.875	88	*	*
TPH	mg/l	WMW	0	*	25	19.5	78	*	*
OIL AND GREASE	mg/l	SMC	0.3	*	10	8.1	81	*	*

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JUL 26 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/21/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE			
			Known	Result	UCLx	LCLx	Result1	Result2	Range	UCLr
SELENIUM-VH	mg/l	JKM	0.05	0.0505	0.058	0.04	0.0001	0.0003	0.0002	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.24	*	*	0.001	0.001	0	*
SULFATE	mg/l	WMW	20	22	25.3	16.2	74	70	4	*
CADMIUM-ICP	mg/l	JKM	1	0.965	*	*	0.001	0.001	0	*
ARSENIC-VH	mg/l	JKM	0.051	0.0477	*	*	0.0088	0.0103	0.0015	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.04	*	*	0.028	0.025	0.003	*
LEAD-ICP	mg/l	JKM	1.02	1	*	*	0.053	0.059	0.006	*
COPPER-ICP	mg/l	JKM	1.02	0.992	*	*	0.422	0.415	0.007	*
ANTIMONY-ICP	mg/l	JKM	1	1	1.137	0.909	0.009	-0.004	0.013	*
IRON-ICP	mg/l	JKM	1.04	1.01	1.24	0.972	0.388	0.31	0.078	*
PHENOLICS	mg/l	DIH	0.5	0.506	0.55	0.451	4	4.5	0.5	*
NICKEL-ICP	mg/l	JKM	1	0.979	*	*	0.056	0.052	0.004	*
ALUMINUM-ICP	mg/l	JKM	1	1.08	1.34	0.983	10.694	10.125	0.569	*
THALLIUM-FURNACE	mg/l	JKM	0.05	0.051	*	*	-0.0022	-0.002	0.00022	*
BARIUM-ICP	mg/l	JKM	1.02	0.981	*	*	0.127	0.136	0.009	*
SILVER-ICP	mg/l	JKM	0.2	0.172	*	*	0	0.002	0.002	*
ZINC-ICP	mg/l	JKM	1	0.858	*	*	0.469	0.445	0.024	*
BOD	mg/l	SMC	200	197	237	167	<3	<3	0	*

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OHIO EPA

JUL 26 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/21/89

Parameter	Units	Analyst	METHOD BLANK		MATRIX/MEDIA SPIKE				
			Result	UCLb	Conc.	Recovery	Rec.(%)	UCLs(%)	LCLs(%)
SELENIUM-VH	mg/l	JKM	-0.0001	*	0.05	0.0495	99	*	*
BERYLLIUM-ICP	mg/l	JKM	0	*	1.26	1.169	93	*	*
SULFATE	mg/l	WMW	2	*	10	12.9	129	*	*
CADMIUM-ICP	mg/l	JKM	0.001	*	1	0.885	89	*	*
ARSENIC-VH	mg/l	JKM	0.0001	*	0.051	0.0513	101	*	*
CHROMIUM-ICP	mg/l	JKM	0.001	*	1.02	0.975	96	*	*
LEAD-ICP	mg/l	JKM	0.008	*	1.02	1.004	98	*	*
COPPER-ICP	mg/l	JKM	0.001	*	1.02	0.99	97	*	*
ANTIMONY-ICP	mg/l	JKM	-0.004	*	1	0.923	92	*	*
IRON-ICP	mg/l	JKM	-0.001	*	1.04	0.9	87	*	*
PHENOLICS	mg/l	DIH	0.001	*	0.5	0.474	95	*	*
NICKEL-ICP	mg/l	JKM	-0.011	*	1	0.928	93	*	*
ALUMINUM-ICP	mg/l	JKM	0.023	*	1	0.916	92	*	*
THALLIUM-FURNACE	mg/l	JKM	0	*	0.05	0.038	76	*	*
BARIUM-ICP	mg/l	JKM	0.004	*	1.02	0.924	91	*	*
SILVER-ICP	mg/l	JKM	-0.003	*	0.2	0.169	85	*	*
ZINC-ICP	mg/l	JKM	0.006	*	1	0.75	75	*	*
BOD	mg/l	SMC	0.4	*	200	189	95	*	*

RECEIVED  
OHIO EPA

JUL 26 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLb = Upper Control Limit (Blank)  
 UCLs = Upper Control Limit (Spike Recovery)  
 LCLs = Lower Control Limit (Spike Recovery)  
 \* = Initial Data Collection

## KEMRON Environmental Services

## QUALITY ASSURANCE DAILY REPORT

Laboratory: Ohio Valley

Date: 06/27/89

Parameter	Units	Analyst	REFERENCE STANDARD				DUPLICATE SAMPLE		Range	UCLr
			Known	Result	UCLx	LCLx	Result1	Result2		
MOLYBDENUM-ICP	mg/l	JKM	5	5.05	*	*	0.022	0.001	0.021	*
LEAD-FURNACE	mg/l	RSL	0.051	0.055	*	*	0.00444	0.002	0.00244	*
CYANIDE	mg/l	DIH	0.2	0.184	0.213	0.14	0.01	0.01	0	*
TIN-FURNACE	mg/l	JKM	0.05	0.055	*	*	0	0	0	*
ALUMINUM-ICP	mg/l	JKM	1	1.02	1.34	0.983	0.01	0.009	0.001	*
ANTIMONY-ICP	mg/l	JKM	1	0.978	1.137	0.909	-0.001	-0.002	0.001	*
BARIUM-ICP	mg/l	JKM	1.02	0.962	*	*	0.048	0.047	0.001	*
BERYLLIUM-ICP	mg/l	JKM	1.26	1.25	*	*	0	0	0	*
CADMIUM-ICP	mg/l	JKM	1	0.972	*	*	0	0	0	*
CHROMIUM-ICP	mg/l	JKM	1.02	1.03	*	*	0.002	0.002	0	*
COPPER-ICP	mg/l	JKM	1.02	0.995	*	*	0.004	0.002	0.002	*
IRON-ICP	mg/l	JKM	1.04	1.04	1.24	0.972	0.024	0.02	0.004	*
NICKEL-ICP	mg/l	JKM	1	0.999	*	*	0.028	0.026	0.002	*
SILVER-ICP	mg/l	JKM	0.2	0.175	*	*	0.001	-0.005	0.006	*
ZINC-ICP	mg/l	JKM	1	0.885	*	*	0.017	0.013	0.004	*
TSS	mg/l	SMC	50	56	59	43	5	5	0	*
TDS	mg/l	SMC	500	502	543	457	360	370	10	*

RECEIVED  
OHIO EPA

JUL 26 1989

DIV. of SOLID &amp; HAZ. WASTE MGT.

UCLx = Upper Control Limit (Standard)

LCLx = Lower Control Limit (Standard)

UCLr = Upper Control Limit (Range)

\* = Initial Data Collection

MAY 25, 1988 9:00 AM  
Date and Time of Inspection

RCRA INTERIM STATUS INSPECTION FORM

IIWFAD # \_\_\_\_\_

U.S. EPA I.D. # OH0017497587

GENERAL INFORMATION

Facility: AMERICAN STEEL FOUNDRIES Address: LAKE PARK BLVD. AT HILLOCK City: SERRANA TWP.  
State: OHIO Zip Code: \_\_\_\_\_ County: MEMPHIS Telephone: \_\_\_\_\_

INSPECTION PARTICIPANT(S)

(Name)	(Title)	(Telephone)
1. <u>PAUL LIMBACH</u>	<u>WORKS ENGINEER</u>	<u>(216) 823-6150</u>
2. <u>CHARLES RUDD</u>	<u>MGR. QUALITY AND ENVIRONMENTAL AFFAIRS</u>	<u>(312) 938-4018</u>
3. _____	_____	_____

INSPECTOR(S)

1. <u>KEVIN BOGARD</u>	<u>ENVIRONMENTAL SCIENTIST</u>	<u>(216) 425-9171</u>
2. _____	_____	_____
3. _____	_____	_____

INSTALLATION ACTIVITY

Mark One

If the site is a TSDF, check the boxes indicating which areas were reviewed.

- ☐ Generator only (G)  
☐ Transporter (T)  
☒ TSDF only  
☐ G-T  
☐ G-TSDF  
☐ T-TSDF  
☐ G-T-TSDF

- ☒ General Facility Standards, Preparedness and Prevention, Contingency and Emergency Manifests/Records/Reporting, Closure  
☐ Containers S01  
☐ Tanks S02/T01  
☐ Surface Impoundments S04/T02  
☐ Incineration/Thermal Treatment

- ☐ Waste Piles S03  
☐ Land Treatment D01  
☒ Landfills D00  
☐ Chemical/Physical/Biological 104  
☒ Groundwater Monitoring  
☐ Post-Closure

# RCRA INTERIM STATUS INSPECTION FORM

1. Has the facility submitted a Part A to Ohio?
  2. If "yes", is it complete and accurate?
  3. Has the facility submitted a Part B?
  4. Was advance notice of the inspection given? If so, how far in advance?
- IF THE SITE HAS RECEIVED A PART B PERMIT, USE THE RCRA STATUS INSPECTION FORM.

<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	#1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	~ 1 WKS.

## REMARKS, GENERAL INFORMATION

Include a brief description of site activity and waste handling.

#1 - PART A SUBMITTED IN NOV. 1980 FOR LANDFILL DISPOSAL OF DOCK WASTE.

IN JUNE 1982, ASF REQUESTS USEPA WITHDRAW PART A APPLICATION BASED ON THEIR TESTING OF WASTE STREAM.

USEPA ACKNOWLEDGES REQUEST IN

APRIL 1983 BASED ON

INFORMATION SUBMITTED AT THAT

TIME. SUBSEQUENT SAMPLING BY U.S. EPA

CONFIRMS DISPOSAL OF HAZARDOUS WASTES

AT THIS FACILITY. INFORMATION - 2

Revised 12/84

RCRA INTERIM STATUS INSPECTION FORM

40 CFR 265 (OAC 3745-65-et seq.) GENERAL INTERIM STATUS REQUIREMENTS AND TSD REQUIREMENTS

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
<u>Subpart B: General Facility Standards</u>				
1. The operator has a detailed chemical and physical analysis of the waste material containing all of the information which must be known to properly treat or store the waste as required by Section 265.13(a) [3745-65-13(A)(1)]	✓	—	—	—
2. The operator has a written waste analysis plan which describes analytical parameters, test methods, sampling methods, testing frequency and responses to any process changes that may affect the character of the waste. (Section 265.13(b)) [3745-65-13(B)]	—	✓	—	#1
3. a) Would physical contact with the waste structures or equipment injure unknowing/unauthorized persons or livestock entering the facility? (265.14(a)(1)) [3745-65-14(A)(1)]	✓	—	—	—
b) Would disturbance of the waste cause a violation of the hazardous waste regulations? (265.14(a)(2)) [3745-65-14(A)(2)]	✓	—	—	—
IF BOTH 3a AND 3b ARE "NO", MARK QUESTIONS 4 AND 5 "NOT APPLICABLE".				
4. The facility has -				
a) A 24-hour surveillance system, <u>or</u>	—	✓	—	—
b) An artificial or natural barrier <u>and</u> a means to control entry at all times (265.14(b)(2)). [3745-65-14(B)(2)(a and b)]	—	✓	—	#2
5. The facility has a sign "Danger-Unauthorized Personnel Keep Out" at each entrance to the active portion of the facility and at other locations as necessary. (265-14(c)) [3745-65-14(C)]	—	✓	—	—

#1 - NO WASTE ANALYSIS PLAN DEVELOPED

#2 - ACCESSIBLE FROM WEST, SOUTH, SOUTHEAST VIA HEACOCK RD.



# RCRA INTERIM STATUS INSPECTION FORM

6. a) The operator has developed and followed a comprehensive, written inspection plan and documented the inspections, malfunctions and any remedial actions taken in an operating record log which is kept for at least three years. (265.15) [3745-65-15]
- b) Areas subject to spills (i.e., loading and unloading areas, container storage areas, etc.) are inspected daily when in use and according to other applicable regulations when not actively in use. (265.15(b)(4)) [3745-65-15(D)(4)]
7. The facility has provided a Personnel Training Program in compliance with Section 265.16(a)(b)(c) including instruction in safe equipment operation and emergency response procedures, training new employees within 6 months and providing an annual training program refresher course. [3745-65-16(A)(U)(C)]
8. The facility keeps all records required by Section 265.16(d)(e) including written job titles, job descriptions and documented employee training records. [3745-65-16(D)(E)]
9. If required due to the actual hazards associated with Ignitable, Reactive or Incompatible waste materials, the facility meets the following requirements: (Section 265.17) [3745-65-17]
- a) Protection from sources of ignition.
- b) Physical separation of incompatible waste materials.
- c) "No Smoking" or "No Open Flames" signs near areas where Ignitable or Reactive wastes are handled.
- d) Any comingling of waste materials is done in a controlled, safe manner as prescribed by Section 265.17(b). [3745-65-17(D)]

<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
—	✓	—	#3
—	✓	—	—
—	✓	—	#4
—	✓	—	#4
—	—	✓	—
—	—	✓	—
—	—	✓	—
—	—	✓	—

#3 - NO INSPECTION PLAN DEVELOPED

#4 - NO PERSONNEL TRAINING SPECIFIC TO  
HAZARDOUS WASTE MANAGEMENT

# RCRA INTERIM STATUS INSPECTION FORM

Yes No N/A Remark #

## Subpart C: Preparedness and Prevention

1. Has there been a fire, explosion or non-planned release of hazardous waste at this facility? (265.31) [3745-65-31]
2. If required due to actual hazards associated with the waste material, the facility has the following equipment: (265.32) [3745-65-32(A)(B)(C)(D)]
  - a) Internal alarm system.
  - b) Access to telephone, radio or other device for summoning emergency assistance.
  - c) Portable fire control equipment.
  - d) Water of adequate volume and pressure via hoses sprinkler, foamers or sprayers.
3. All required safety, fire and communications equipment is tested and maintained as necessary; testing and maintenance are documented. (265.33) [3745-65-33]
4. If required due to the actual hazards associated with the waste material, personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled. (265.34) [3745-65-34]
5. If required due to the actual hazards associated with the waste material, adequate aisle space to allow unobstructed movement or emergency or spill control equipment is maintained. (265.35) [3745-65-35]
6. If required due to the actual hazards associated with the waste material, the facility has attempted to make appropriate arrangements with local emergency service authorities to familiarize them with the possible hazards and the facility layout. (265.37(a)) [3745-65-37(A)]
7. Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements the refusal has been documented. (265.37(b)) [3745-65-37(B)]

—	✓	—	—
—	—	✓	—
✓	—	—	#5
—	—	✓	—
—	—	✓	—
—	✓	—	#6
✓	—	—	#5
—	—	✓	—
—	—	✓	—
—	—	✓	—

#5 - TRUCKS EQUIPPED WITH RADIOS (CHANGE FROM LAST INSPECTION)

PREPAREDNESS AND PREVENTION - 1

Revised 12/84

#6 - TESTING AND MAINTENANCE NOT DOCUMENTED

# RCRA INTERIM STATUS INSPECTION FORM

Yes No N/A Remark #

## Subpart D: Contingency and Emergency

1. The facility has a written Contingency Plan designed to minimize hazards from fire, explosions or unplanned releases of hazardous wastes (265.51) [3745-65-52(A)(B)(C)(D)(E)] and contains the following components:

a) Actions to be taken by personnel in the event of an emergency incident.

b) Arrangements or agreements with local or state emergency authorities.

c) Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator.

d) A list of all emergency equipment including location, physical description and outline of capabilities.

e) If required due to the actual hazards associated with the waste(s) handled, an evacuation plan for facility personnel. (265.51(f)) [3745-65-52(F)]

2. A copy of the Contingency Plan and any plan revisions is maintained on-site and has been submitted to all local and state emergency service authorities that might be required to participate in the execution of the plan. (265.53) [3745-65-53(A)(B)]

3. The plan is revised in response to facility, equipment and personnel changes or failure of the plan. (265.54) [3745-65-54]

4. An emergency coordinator is designated at all times (on-site or on-call) is familiar with all aspects of site operation and emergency procedures and has the authority to implement all aspects of the Contingency Plan. (265.56) [3745-65-55]

5. If an emergency situation has occurred, the emergency coordinator has implemented all or part of the Contingency Plan and has taken all of the actions and made all of the notifications deemed necessary under Sections 265.56(a-j). [3745-65-56(A-j)]

—	✓	—	# 7
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	

# 7 - NO CONTINGENCY PLAN DEVELOPED,  
NO ASSIGNED EMERGENCY COORDINATOR (FOR THIS FACILITY)

# RCRA INTERIM STATUS INSPECTION FORM

Yes No N/A Remark #

## Subpart E: Manifests/Records/Reporting

**NOTE:** THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH ON-SITE AND OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

1. The operator maintains a written operating record at his facility as required by Section 265.73 [3745-65-73(A)] which contains the following information:

- a) Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date(s) and method(s) pertinent to such treatment, storage or disposal. (265.73(b)(1)) [3745-65-73(B)(1)]
- b) Common name, EPA Hazardous Waste Identification Number and physical state (liquid, solid, gas) of the waste(s).
- c) The estimated (or actual) weight, volume or density of the waste material(s).
- d) A description of the method(s) used to treat, store or dispose of the waste(s) using the EPA Handling Codes listed in 45 FR 33252 (May 19, 1980).
- e) The present physical location of each hazardous waste within the facility.
- f) FOR DISPOSAL FACILITIES, the location and quantity of each hazardous waste recorded on a map of the facility and cross-references to any pertinent manifest document number(s). (265.73(b)(2)) [3745-65-73(B)(2)]
- g) Records of any waste analyses and trial tests required to be performed.
- h) Records of the inspections required under Section 265.15 [3745.65.14] (General Inspection Requirements - Subpart B).
- i) Records of any monitoring, testing or analytical data required under other Subparts as referenced by Section 265.73(b)(6). [3745-65-73(B)(6)]
- j) Records of Closure cost estimates and Post-Closure (DISPOSAL ONLY) cost estimates required under Subpart G.

Yes	No	N/A	Remark #
—	✓	—	# 8
—	✓	—	↓
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	

RCRA INTERIM STATUS INSPECTION FORM

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
2. The operators has submitted an annual Treatment-Storage-Disposal Operating Report (by March 1) containing all of the operating information required under Section 265.75. [3745-65-75]	—	✓	—	#9
<b>NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO <u>ONLY</u> OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.</b>				
3. Manifests received by the facility are signed and dated; one copy is given to the transporter, one copy is sent to the generator within 30 days and one copy is kept for at least 3 years. (265.71) [3745-65-71(A)]	—	✓	—	—
a) If shipping papers are used in lieu of manifests (bulk shipments, etc.) the same requirements are met. (265.71(b)) [3745-65-71(B)]	—	✓	—	—
b) Any significant discrepancies in the manifest, as defined in Section 265.72(a) [3745-65-72(A)] are noted in writing on the manifest document. (265.71(a)(2)) [3745-65-71(A)(2)]	—	✓	—	—
4. Any manifest discrepancies have been reconciled within 15 days as required by Section 265.72(b) or the operator has submitted the required information to the Regional Administrator/Director. [3745-65-72(B)]	—	✓	—	—
5. If the facility has accepted any unmanifested hazardous wastes from off-site sources (except from small quantity generators) for treatment, storage, or disposal an unmanifested waste report containing all the information required by Section 265.76 has been submitted to the Regional Administrator/Director within 15 days. [3745-65-76(A)]	—	✓	—	—

#8 - FACILITY DOES NOT MAINTAIN A WRITTEN OPERATING RECORD.

#9 - ANNUAL REPORTS ARE NOT SUBMITTED

#10 - MANIFESTS HAVE NOT BEEN USED FOR SHIPMENTS TO THIS FACILITY

# RCRA INTERIM STATUS INSPECTION FORM

## SUBPART F: GROUND WATER MONITORING

ADEQUACY TO BE  
EVALUATED BY  
CME CURRENTLY  
UNDER PREPARATION

Type of facility: (check appropriately)

- a) surface impoundment
- b) landfill
- c) land treatment facility

Yes No Unknown Waived

\_\_\_  
\_\_\_  
\_\_\_

**NOTE:** UNDER INTERIM STATUS STANDARDS A WASTE PILE IS NOT SUBJECT TO GROUND WATER MONITORING REQUIREMENTS. PLEASE NOTE, HOWEVER, THAT IF ANY HAZARDOUS WASTE FROM A WASTE PILE IS LEFT IN PLACE AT CLOSURE, THE "WASTE PILE" BECOMES A "LANDFILL" AND MUST MEET POST-CLOSURE RULES APPLICABLE TO LANDFILLS.

### Ground Water Monitoring Program

1. Was the ground water monitoring program reviewed prior to site visit?  
If "No",

\_\_\_

a) Was the ground water program reviewed at the facility prior to site inspection?

\_\_\_

2. Has a ground water monitoring program (capable of determining the facility's impact on the quality of ground water in the uppermost aquifer underlying the facility) been implemented?  
265.90(a) [3745-65-90(A)]

\_\_\_

3. Has at least one monitoring well been installed in the uppermost aquifer hydraulically upgradient from the limit of the waste management area? 265.91(a)(1) [3745-65-91(A)(1)]

\_\_\_

a) Are ground water samples from the uppermost aquifer, representative of background ground water quality and not affected by the facility (as ensured by proper well number, location and depths)?

\_\_\_

	<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Waived</u>
4. Have at least three monitoring wells been installed hydraulically downgradient at the limit of the waste handling or management area? 265.91(a)(2) [3745-65-91(A)(2)]	—	—		
a) Do well number, locations and depths ensure prompt detection of any statistically significant amounts of hazardous waste or hazardous waste constituents that migrate from the waste management area to the uppermost aquifer?	—	—		
5. Have the locations of the waste management areas been verified to conform with information in the ground water program?	—	—	—	
a) If the facility contains multiple waste management components, is each component adequately monitored?	—	—		
6. Do the numbers, locations, and depths of the ground water monitoring wells agree with the data in the ground water monitoring system program? If "No", explain discrepancies.	—	—	—	
7. Well completion details. 265.91(c) [3745-65-91(C)]				
a) Are wells properly cased?	—	—	—	
b) Are wells screened (perforated) and packed where necessary to enable sampling at appropriate depths?	—	—	—	
c) Are annular spaces properly sealed to prevent contamination of ground water?	—	—	—	

	<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Waived</u>
8. Has a ground water sampling and analysis plan been developed? 265.92(a) [3745-65-92(A)]	—	—	—	
a) Has it been followed?	—	—	—	
b) Is the plan kept at the facility?	—	—	—	
c) Does the plan include procedures and techniques for:				
1) Sample collection?	—	—		
2) Sample preservation?	—	—		
3) Sample shipment?	—	—		
4) Analytical procedures?	—	—		
5) Chain of custody control?	—	—		
9. Are the required parameters in ground water samples being tested quarterly for the first year? 265.92(b) [3745-65-92(B)] and 265.92(c)(1) [3745-65-92(C)]	—	—		
a) Are the ground water samples analyzed for the following:				
1) Parameters characterizing the suitability of the ground water as a drinking water supply? 265.92(b)(1) [3745-65-92(B)(1)]	—	—		
2) Parameters establishing ground water quality? 265.92(b)(2) [3745-65-92(B)(2)]	—	—		
3) Parameters used as indicators of ground water contamination? 265.92(b)(2) [3745-65-92(B)(3)]	—	—		
(1) For each indicator parameter are at least four replicate measurements obtained at each upgradient well for each sample obtained during the first year of monitoring? 265.92(c)(2) [3745-65-92(C)(2)]	—	—		



	<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Waived</u>
(11) Are provisions made to calculate the initial background arithmetic mean and variance of the respective parameter concentrations or values obtained from the upgradient well(s) during the first year? 265.92(c)(2) [3745-65-92(C)(2)]	—	—		
b) For facilities which have completed first year ground water sampling and analysis requirements:				
1) Have samples been obtained and analyzed for the ground water quality parameters at least annually? 265.92(d)(1) [3745-65-92(D)(1)]	—	—		
2) Have samples been obtained and analyzed for the indicators of ground water contamination at least semi-annually? (4 replicate measurements per sample) 265.92(d)(2) [3745-65-92(D)(2)]	—	—		
c) Were ground water surface elevations determined at each monitoring well each time a sample was taken? 265.92(e) [3745-65-92(E)]	—	—		
d) Were ground water surface elevations evaluated annually to determine whether the monitoring wells are properly placed? 265.92(f) [3745-65-92(E)]	—	—		
e) If it was determined that modification of the number, location or depth of monitoring wells was necessary, was the system brought into compliance with 265.91(a) [3745-65-91(A)]? 265.93(f) [3745-65-93(F)]	—	—		
10. Has an outline of a ground water quality assessment program been prepared? 265.93(a) [3745-65-93(A)]	—	—		
a) Does it describe a program capable of determining:				
1) Whether hazardous waste or hazardous waste constituents have entered the ground water?	—	—		
2) The rate and extent of migration of hazardous waste or hazardous waste constituents in ground water?	—	—		
3) Concentrations of hazardous waste or hazardous waste constituents in ground water?	—	—		

	<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Waived</u>
b) After the first year of monitoring, have at least four replicate measurements of each indicator parameter been obtained for samples taken for each well? 265.93(b) [3745-65-93(B)]	—	—		
1) Were the results compared with the initial background means from the upgradient well(s) determined during the first year?	—	—		
(i) Was each well considered individually?	—	—		
(ii) Was the Student's t-test used (at the 0.01 level of significance?)	—	—		
2) Was a significant increase (or pH decrease as well) found in the:				
(i) Upgradient wells (If "Yes", Compliance Checklist A-2 must also be completed.) [3745-65-93(C)(1)]	—	—		
(ii) Downgradient wells	—	—		
If "Yes", owner or operator must obtain, split, and analyze additional samples from the wells where a significant difference was detected. If the difference is confirmed, the Director should be notified in writing within 7 days and a ground water assessment plan within 15 days. [3735-65-93(C)(2) and (D)(2)(3)]				
11. Have records been kept of analyses for parameters in 265.92(c) and (d) [3745-65-92(C) and (D)]? 265.94(a)(1) [3745-65-94(A)(1)]	—	—		
12. Have records been kept of ground water surface elevations taken at the time of sampling for each well? 265.94(a)(1) [3745-65-94(A)(1)]	—	—		
13. Have records been kept of required elevations in 265.93(b) [3745-65-93(B)]? 265.94(a)(1) [3745-65-94(A)(1)]	—	—		
14. Have the following been submitted to the Director of the Ohio EPA: 265.94(a)(2) [3745-65-94(A)(2)]				
a) Initial background concentrations of parameters listed in 265.92(b) [3745-65-92(B)] within 15 days after completing each quarterly analysis required during the first year?	—	—		

	<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Waived</u>
b) For each well, have any parameters whose concentrations or values have exceeded the maximum contaminant levels allowed in drinking water supplied been separately identified?	—	—		
c) Annual reports including: [3745-65-94(A)(2)]				
1) Concentrations or values of parameters used as indicators of ground water contamination for each well along with required evaluations under 265.93(b) [3745-65-93(B)]?	—	—		
2) Any significant differences from initial background values in upgradient wells separately identified?	—	—		
3) Results of the evaluation of ground water surface elevations?	—	—		

Comments: Subpart F

# RCRA INTERIM STATUS INSPECTION FORM

Yes No N/A Remark #

## Subpart G: Closure and Post-Closure

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH DISPOSAL AND NON-DISPOSAL FACILITIES.

1. A written Closure Plan is on file at the facility and contains the following elements: (Section 265.112) [3745-66-12]
  - a) A description of how and when the facility will be closed. (265.112(a)(1)) [3745-66-12(A)(1)]
  - b) A description of how any of the applicable closure requirements in other Subparts of Section 265 [3745-66] (Tanks, Surface Impoundments, Landfill, etc.) will be carried out.
  - c) An estimate of the maximum amount of hazardous wastes being treated or in storage at the facility. (NOTE: Maximum inventory should agree with the permit.)
  - d) A description of steps taken to decontaminate facility equipment.
  - e) The year closure is expected to begin and a schedule for the various phases of closure.
2. The Closure Plan has been amended within 60 days in response to any changes in facility design, processes or closure dates. (265.112(4)(B)) [3745-66-12(B)]
3. The Closure Plan has been submitted to the Regional Administrator/Director 180 days prior to beginning the Closure process. (265.112(4)(C)) [3745-66-12(C)]

(OR POST-CLOSURE)

#11 - NO CLOSURE PLANS AVAILABLE

—	✓	—	#11
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	

RCRA INTERIM STATUS INSPECTION FORM

Yes No N/A Remark #

Subpart H: Financial Requirements

1. The owner or operator of the facility has established financial assurance for closure by use of one of the following: (265.143) [3745-66-43]
  - a) A closure trust fund, or
  - b) A surety bond, or
  - c) A closure letter of credit, or
  - d) A combination of financial mechanisms.
2. A written cost estimate for closure of the facility (as specified in the closure plan) is available. How much is it?
3. When was the most recent estimate made?
4. A written cost estimate for post closure care of the facility (if applicable) is available. How much is it?
5. When was the most recent estimate made?

—	✓	—	# 12
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	
—	✓	—	

REMARKS, GENERAL INTERIM STATUS REQUIREMENTS

# 12 - NO FINANCIAL ASSURANCE ESTABLISHED

(NO LIABILITY COVERAGE ESTABLISHED)  
(40 CFR 265.147, EPC 3745-66-47)

# RCRA INTERIM STATUS INSPECTION FORM

Yes    No    N/A    Remark #

## Subpart N: Landfills

1. General Operating Requirements. Does the facility provide the following:

NOTE: 1a, 1b AND 1c ARE EFFECTIVE ON NOVEMBER 19, 1981.

a) Diversion of run-on away from active portions of the fill?  
(265.302(a)) [3745-68-02(A)]

—    ✓    —    #13

b) Collection of run-off from active portions of the fill?  
(265.302(b)) [3745-68-02(B)]

—    ✓    —

c) Is collected run-off treated? [3745-68-02(B)]

—    ✓    —

d) Control of wind dispersal of hazardous waste? (265.302(d)) [3745-68-02(D)]

—    ✓    —

2. Surveying and Recordkeeping. Does the operating record include: [3745-68-09]

a) a map showing the exact location and dimensions of each cell?  
(269.309(a)) [3745-68-09(A)]

—    ✓    —

b) The contents of each cell and the location of each hazardous waste  
type within each cell? (269.309(b)) [3745-68-09(B)]

—    ✓    —

3. Closure and Post-Closure

a) Is the closure Plan available for inspection?

—    ✓    —    #11

b) Has this plan been submitted to the Regional Administrator?

—    ✓    —

c) Has Closure begun?

—    ✓    —

d) Is Closure cost estimate available by?

—    ✓    —

#13 - OPERATING REQUIREMENTS INCLUDE SPECIFIC DESIGN,  
CONSTRUCTION, OPERATION AND MAINTENANCE CRITERIA  
FOR RUN-OFF AND RUN-ON CONTROL AND FOR  
LANDFILLS - 1 WIND DISPERSAL  
CONTROL

Revised 12/84

# RCRA INTERIM STATUS INSPECTION FORM

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
4. Special requirements for ignitable or reactive waste. (265.312(a)(8))				
a) Are ignitable or reactive waste treated so the resulting mixture is no longer ignitable or reactive?	—	—	✓	—
<u>NOTE:</u> IF WASTE IS RENDERED NON-REACTIVE OR NON-IGNITABLE, SEE TREATMENT REQUIREMENTS. IF NOT, THE PROVISIONS OF 40 CFR 265.17(b) APPLY. [3745-65-17]				
5. Special requirements for Incompatible Wastes.				
a) Does the owner or operator dispose of incompatible wastes in separate cells? If not, the provisions of 40 CFR 265.17(b) apply. [3745-65-17]	—	—	✓	—
6. Special requirements for Containers:				
Are empty containers crushed flat, shredded, or similarly reduced in volume before being buried beneath the surface of the landfill? (265.315) [3745-57-85]	—	—	✓	—
7. Special requirements for Liquid Waste.				
Bulk or non-containerized liquid waste or waste containing free liquids is placed in a landfill having a liner and leachate collection and removal system meeting 264.301(a) requirements or is treated so that free liquids are no longer present. (265.314(a)) [3745-68-14(A)]	—	✓	—	—
8. A written Post-Closure Plan is on file at the facility.	—	✓	—	#11
9. The Post-Closure Plan has been amended within 60 days in response to any changes in facility design or operation. (265.118(b))	—	✓	—	↓
10. The Post-Closure Plan has been submitted to the Regional Administrator/Director 180 days prior to beginning Closure. (265.118(c))	—	✓	—	↓
11. The property owner has attached a notation to the property deed or other instrument which will notify any potential purchaser that the property has been used to manage hazardous waste and future use of the property is restricted under Section 265.117(c) [3745-66-17(C)] as required in Section 265.120 [3745-66-10].	—	✓	—	—

May 25, 1986, 9:00 AM  
Date and Time of Inspection

RCRA INTERIM STATUS INSPECTION FORM

GENERAL INFORMATION

Facility: American Steel Foundries Address: 1001 E. BROADWAY City: ALLIANCE  
State: OHIO Zip Code: 44601 County: STARK Telephone: (216) 823-6150

IIWFAB #

U.S. EPA I.D. # OHIO 981 909416

INSPECTION PARTICIPANT(S)

(Name)	(Title)	(Telephone)
1. <u>PAUL LIMBACH</u>	<u>WORKS ENGINEER</u>	<u>(216) 823-6150</u>
2. <u>CHARLES RUUD</u>	<u>MGR. QUALITY AND ENVIRONMENTAL AFFAIRS</u>	<u>(312) 938-4018</u>
3. _____	_____	_____

INSPECTOR(S)

1. <u>KEVIN BONZO</u>	<u>ENVIRONMENTAL SCIENTIST, OHIO EPA</u>	<u>(216) 425-9171</u>
2. _____	_____	_____
3. _____	_____	_____

INSTALLATION ACTIVITY

Mark One

If the site is a TSDF, check the boxes indicating which areas were reviewed.

- ☒ Generator only (G)  
☐ Transporter (T)  
☐ TSDF only  
☐ G-T  
☐ G-TSDF  
☐ T-TSDF  
☐ G-T-TSDF

- ☒ General Facility Standards, Preparedness and Prevention, Contingency and Emergency Manifests/Records/Reporting, Closure  
☒ Containers S01 - TRAILERS FOR CAF DUST  
☐ Tanks S02/101  
☐ Surface Impoundments S04/102  
☐ Incineration/Thermal Treatment

- ☐ Waste Piles S03  
☐ Land Treatment D01  
☐ Landfills D00  
☐ Chemical/Physical/Biological 104  
☐ Groundwater Monitoring  
☐ Post-Closure



RCRA INTERIM STATUS INSPECTION FORM

1. Has the facility submitted a Part A to Ohio?

2. If "yes", is it complete and accurate?

3. Has the facility submitted a Part D?

4. Was advance notice of the inspection given? If so, how far in advance?

<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
—	✓	—	—
—	—	✓	—
✓	—	—	—
—	—	—	~ 4 WEEKS

IF THE SITE HAS RECEIVED A PART B PERMIT, USE THE RCRA STATUS INSPECTION FORM.

REMARKS, GENERAL INFORMATION

Include a brief description of site activity and waste handling.

RCRA INTERIM STATUS INSPECTION FORM

40 CFR 262 (OAC 3745-52) GENERATOR REQUIREMENTS

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
1. The hazardous waste(s) generated at this facility have been tested or are acknowledged to be hazardous waste(s) as defined in Section 261 and in compliance with the requirements of Sections 262.11. [3745-52-11(D)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CAF DUST TESTED, MANIFESTED AS HAZARDOUS WASTE
2. Does this facility generate any hazardous wastes that are excluded from regulation under Section 261.4 [3745-51-04] (statutory exclusions) or Section 261.6 [3745-51-06(A)(1)] (recycle/reuse)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Does this facility have waste or waste treatment equipment that is excluded from regulation because of totally enclosed treatment (Section 265.1(c)(9)) [3745-65-01] or via operation of an elementary neutralization unit and/or wastewater treatment unit (Section 265.1(c)(10) [3745-65-01]	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. The generator meets the following requirements with respect to the preparation, use and retention of the hazardous waste manifest:				
a) The manifest form used contains all of the information required by Section 262.21(a) and (b) [3745-52-21] and the minimum number of copies required by Section 262.22 [3745-52-22].	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	# 1
b) The generator has designated at least one permitted disposal facility and has/will designate an alternate facility or instructions to return waste in compliance with Section 262.20 [3745-52-20(B)(C)(D)].	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N.T. Zinc Co.
c) Prepared manifests have been signed by the generator and initial transporter in compliance with Section 262.23 [3745-52-23(A)(1 and 2)].	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d) The generator has complied with manifest exception reporting requirements (investigate after 35 days, report after 45 days) in Section 262.42(a)(b) [3745-52-42].	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e) Signed copies of all hazardous waste manifests and any documentation required for Exception Reports are retained for at least 3 years as required by Section 262.40 [3745-52-40]. (262.40(a)) [3745-52-40(a)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

RCRA INTERIM STATUS INSPECTION FORM

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
5. The generator meets the following hazardous waste pre-transport requirements:				
a) Prior to offering hazardous wastes for transport off-site the waste material is packaged, labeled and marked in accord with applicable DOT regulations (Section 262.30, 262.31 and 262.32(a)) [3745-52-30, 3745-52-31, 3745-52-32]	✓	—	—	—
b) Prior to offering hazardous wastes for transport off-site each container with a capacity of 110 gallons (416 liters) <u>or less</u> is affixed with a completed hazardous waste label as required by Section 262.32(b) [3745-52-32].	—	—	✓	—
c) The generator meets requirements for properly placarding or offering to properly placard the initial transporter of the waste material in compliance with Section 262.33 [3745-52-33].	✓	—	—	TRANSPORTER PLACARDS. ASF NEEDS PLACARDS ON HAND
6. Hazardous wastes imported from or exported to foreign countries are handled in accordance with the requirements of Section 262.50 [3745-52-50]	—	—	✓	—
7. If the generator elects to store hazardous waste on-site in <u>containers</u> or <u>tanks</u> for <u>90 days</u> or less without a RCRA storage permit as provided under Section 262.34 [3745-52-34], the following requirements with respect to such storage are met:				
a) The containers are clearly marked with the words "Hazardous Waste".	✓	—	—	—
b) The date that accumulation began is clearly marked on each container.	✓	—	—	—
8. The generator has provided a Personnel Training Program in compliance with Section 265.16(a)(b)(c) [3745-65-16(A)(B)(C)] including instruction in safe equipment operation and emergency response procedures, training new employees within 6 months and providing an annual training program refresher course. (Section 262.34) [3745-52-34(A)(4)]	—	—	—	# 2
9. The generator keeps all of the records required by Section 265.16(d)(e) [3745-65-16(D)(E)] including written job titles, job descriptions and documented employee training records (Section 262.34) [3745-52-34(A)(4)].	—	—	—	# 2

RCRA INTERIM STATUS INSPECTION FORM

NOTE:

SHORT-TERM STORAGE FOR 90 DAYS OR LESS IN TANKS AND CONTAINERS ALSO REQUIRES THAT REGULATIONS IN SECTION 265 [3745-65], SUBPARTS C AND D (PREPAREDNESS AND PREVENTION PLUS CONTINGENCY AND EMERGENCY) AND CERTAIN PORTIONS OF THE "CONTAINERS" AND "TANKS" RULES DE MET. COMPLETE THE APPROPRIATE SECTIONS OF THE INSPECTION FORM.

REMARKS, GENERATOR REQUIREMENTS

#1 - WHEREAS THE MANIFESTS DO CONTAIN ALL THE REQUIRED INFORMATION, ASF IS USING THE SEBRING DISPOSAL FACILITY ID # ON AT LEAST TWO MANIFESTS (Document #9 & #10)

#2 - THE PERSONNEL TRAINING REQUIREMENTS OF 40 CFR 265.16 AND DAC 3745-65-16 ARE SPECIFIC RULES FOR TRAINING PERSONNEL TO PROPERLY MANAGE HAZARDOUS WASTES. ASF MUST DEVELOP A TRAINING PROGRAM AND MAINTAIN REQUIRED RECORDS AND VOIS DESCRIPTIONS.

# RCRA INTERIM STATUS INSPECTION FORM

Yes No N/A Remark #

## Subpart C: Preparedness and Prevention

1. Has there been a fire, explosion or non-planned release of hazardous waste at this facility? (265.31) [3745-65-31]
2. If required due to actual hazards associated with the waste material, the facility has the following equipment: (265.32) [3745-65-32(A)(B)(C)(D)]
  - a) Internal alarm system.
  - b) Access to telephone, radio or other device for summoning emergency assistance.
  - c) Portable fire control equipment.
  - d) Water of adequate volume and pressure via hoses sprinkler, foamers or sprayers.
3. All required safety, fire and communications equipment is tested and maintained as necessary; testing and maintenance are documented. (265.33) [3745-65-33]
4. If required due to the actual hazards associated with the waste material, personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled. (265.34) [3745-65-34]
5. If required due to the actual hazards associated with the waste material, adequate aisle space to allow unobstructed movement or emergency or spill control equipment is maintained. (265.35) [3745-65-35]
6. If required due to the actual hazards associated with the waste material, the facility has attempted to make appropriate arrangements with local emergency service authorities to familiarize them with the possible hazards and the facility layout. (265.37(a)) [3745-65-37(A)]
7. Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements the refusal has been documented. (265.37(b)) [3745-65-37(B)]

Yes	No	N/A	Remark #
	✓		
✓			FIRE ALARM PULL BOXES - AUTO CALL SYSTEM
✓			Intercom near scale
		✓	
		✓	
✓			REC'D COPY OF 5-9-88 INSPECTION LOG
✓			INTERCOM AT SCALE ADJACENT TO BAGHOUSE
		✓	
	✓		SEE CIVIL LETTER FOR DISCUSSION
		✓	

# RCRA INTERIM STATUS INSPECTION FORM

Yes No N/A Remark #

## Subpart D: Contingency and Emergency

1. The facility has a written Contingency Plan designed to minimize hazards from fire, explosions or unplanned releases of hazardous wastes (265.51) Rec'd COPY @ TIME OF INSPECTION [3745-65-52(A)(B)(C)(D)(E)] and contains the following components:
  - a) Actions to be taken by personnel in the event of an emergency incident. ✓ — — C.P. NOT SUBMITTED TO
  - b) Arrangements or agreements with local or state emergency authorities. — ✓ — EMERGENCY RESPONSE AGENCIES
  - c) Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator. ✓ — — —
  - d) A list of all emergency equipment including location, physical description and outline of capabilities. ✓ — — —
  - e) If required due to the actual hazards associated with the waste(s) handled, an evacuation plan for facility personnel. (265.51(f)) [3745-65-52(F)] — — ✓ —
2. A copy of the Contingency Plan and any plan revisions is maintained on-site and has been submitted to all local and state emergency service authorities that might be required to participate in the execution of the plan. (265.53) [3745-65-53(A)(B)] — ✓ — C.P. MAINTAINED ON-SITE, NOT SUBMITTED TO ANY EMERGENCY RESPONSE AGENCIES.
3. The plan is revised in response to facility, equipment and personnel changes or failure of the plan. (265.54) [3745-65-54] — — ✓ —
4. An emergency coordinator is designated at all times (on-site or on-call) is familiar with all aspects of site operation and emergency procedures and has the authority to implement all aspects of the Contingency Plan. (265.56) [3745-65-55] ✓ — — —
5. If an emergency situation has occurred, the emergency coordinator has implemented all or part of the Contingency Plan and has taken all of the actions and made all of the notifications deemed necessary under Sections 265.56(a-j). [3745-65-56(A-J)] — — ✓ —

# RCRA INTERIM STATUS INSPECTION FORM

## Subpart I: Management of Containers

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
1. Hazardous wastes are stored in containers which are:				
a) Closed (265.173) [3745-66-73(A)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b) In good physical condition (265.171) [3745-66-71]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c) Compatible with the wastes stored in them (265.172) [3745-66-72]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Containers are stored closed except when it is necessary to add or remove wastes. (265.173(a)) [3745-66-73(A)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ROLL-BACK TARP
3. Hazardous waste containers are stored, handled and opened in a manner which prevents container rupture or leakage. (265.173(b)) [3745-66-73(B)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. The area where containers are stored is inspected for evidence of leaks or corrosion at least weekly and such inspections are documented. (265.174) [3745-66-74]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	REC'D COPY OF INSPECTION FORM
5. Containers holding Ignitable or Reactive waste(s) are located at least 50 feet (15 meters) from the property line and the general requirements for handling such wastes in Section 265.17 (physical separation, signs and safety) are met (265.176) [3745-66-76]	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Containers holding hazardous wastes are stored separate from other materials which may interact with the waste in a hazardous manner. (265.177(c)) [3745-66-77(C)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

August 27, 1987 3:00 PM  
Date and Time of Inspection

RCRA INTERIM STATUS INSPECTION FORM

GENERAL INFORMATION

Facility: AMERICAN STEEL FORGINGS Address: LAKE PARK BLVD. AT HEACOCK U.S. EPA I.D. # OH D 017 497 587  
City: SEBRING TWP.  
State: OHIO Zip Code: \_\_\_\_\_ County: MAHONING Telephone: NO TELEPHONE

INSPECTION PARTICIPANT(S)

(Name)	(Title)	(Telephone)
1. <u>DAVID E. STALLER</u>	<u>WORKS ENGINEER</u>	<u>216/823-6150</u>
2. <u>CHARLES A. RUDD</u>	<u>MR. QUALITY AND ENVIRONMENTAL AFFAIRS</u>	<u>312/938-4018</u>
3. _____	_____	_____

INSPECTOR(S)

1. <u>KEVIN M. BONZO</u>	<u>ENVIRONMENTAL SCIENTIST</u>	<u>216/425-9171</u>
2. <u>JENNIE TUCKERMAN</u>	<u>ENVIRONMENTAL SCIENTIST</u>	<u>216/425-9171</u>
3. _____	_____	_____

INSTALLATION ACTIVITY

Mark One

☐ Generator only (G)

☐ Transporter (T)

☒ TSDF only

☐ G-T

☐ G-TSDF

☐ T-TSDF

☐ G-T-TSDF

If the site is a TSDF, check the boxes indicating which areas were reviewed.

☒ General Facility Standards, Preparedness and Prevention, Contingency and Emergency Manifests/Records/Reporting, Closure

☐ Containers S01

☐ Tanks S02/T01

☐ Surface Impoundments S04/T02

☐ Incineration/Thermal Treatment

☐ Waste Piles S03

☐ Land Treatment D01

☒ Landfills D00

☐ Chemical/Physical/Biological T04

☒ Groundwater Monitoring

☐ Post-Closure



# RCRA INTERIM STATUS INSPECTION FORM

1. Has the facility submitted a Part A to Ohio?
  2. If "yes", is it complete and accurate?
  3. Has the facility submitted a Part B?
  4. Was advance notice of the inspection given? If so, how far in advance?
- IF THE SITE HAS RECEIVED A PART B PERMIT, USE THE RCRA STATUS INSPECTION FORM.

Yes	No	N/A	Remark #
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<del>#</del> 1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	~ 2 wks

## REMARKS, GENERAL INFORMATION

Include a brief description of site activity and waste handling.

REMARK #1 - PART A SUBMITTED TO US EPA AND DEPA. WITHDRAWN BY USEPA EFFECTIVE 19 APRIL 1983. ON 19 NOV. 1981, DEPA INSPECTED THIS FACILITY TO VERIFY REQUEST FOR WITHDRAWAL OF PART A. PART A WITHDRAW LETTER SUBMITTED BY ASF TO DEPA ON 16 JULY 1981.

SITE DESCRIPTION - THIS DISPOSAL SITE IS OWNED BY ASF AND WAS FORMERLY A COAL STRIP MINE LATER MINED FOR CLAY. ASF HAS OPERATED THIS

12.5 ACRE SITE FOR DISPOSAL OF FOUNDRY SAND, SLAG, SLUDGE AND EAF

INFORMATION - 2 EMISSION CONTROL DUST. Revised 12/84

# RCRA INTERIM STATUS INSPECTION FORM

40 CFR 265 (OAC 3745-65-et seq.) GENERAL INTERIM STATUS REQUIREMENTS AND TSD REQUIREMENTS

Yes No N/A Remark #

## Subpart B: General Facility Standards

1. The operator has a detailed chemical and physical analysis of the waste material containing all of the information which must be known to properly treat or store the waste as required by Section 265.13(a) [3745-65-13(A)(1)]

✓ — — —

2. The operator has a written waste analysis plan which describes analytical parameters, test methods, sampling methods, testing frequency and responses to any process changes that may affect the character of the waste. (Section 265.13(b)) [3745-65-13(B)]

— ✓ — # 1

3. a) Would physical contact with the waste structures or equipment injure unknowing/unauthorized persons or livestock entering the facility? (265.14(a)(1)) [3745-65-14(A)(1)]

✓ — — —

b) Would disturbance of the waste cause a violation of the hazardous waste regulations? (265.14(a)(2)) [3745-65-14(A)(2)]

✓ — — —

IF BOTH 3a AND 3b ARE "NO", MARK QUESTIONS 4 AND 5 "NOT APPLICABLE".

4. The facility has -

— ✓ — —

a) A 24-hour surveillance system, or

b) An artificial or natural barrier and a means to control entry at all times (265.14(b)(2)). [3745-65-14(B)(2)(a and b)]

— ✓ — # 2

5. The facility has a sign "Danger-Unauthorized Personnel Keep Out" at each entrance to the active portion of the facility and at other locations as necessary. (265-14(c)) [3745-65-14(C)]

— ✓ — —

REMARKS - # 1 NO WASTE ANALYSIS PLAN DEVELOPED

# 2 ACCESSIBLE FROM WEST, SOUTH, SOUTHEAST VIA

GENERAL FACILITY STANDARDS - 1 HEALOCK RD.

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# RCRA INTERIM STATUS INSPECTION FORM

	Yes	No	N/A	Remark #
6. a) The operator has developed and followed a comprehensive, written inspection plan and documented the inspections, malfunctions and any remedial actions taken in an operating record log which is kept for at least three years. (265.15) [3745-65-15]	—	✓	—	# 3
b) Areas subject to spills (i.e., loading and unloading areas, container storage areas, etc.) are inspected daily when in use and according to other applicable regulations when not actively in use. (265.15(b)(4)) [3745-65-15(B)(4)]	—	✓	—	—
7. The facility has provided a Personnel Training Program in compliance with Section 265.16(a)(b)(c) including instruction in safe equipment operation and emergency response procedures, training new employees within 6 months and providing an annual training program refresher course. [3745-65-16(A)(B)(C)]	—	✓	—	# 4
8. The facility keeps all records required by Section 265.16(d)(e) including written job titles, job descriptions and documented employee training records. [3745-65-16(D)(E)]	—	✓	—	# 4
9. If required due to the actual hazards associated with Ignitable, Reactive or Incompatible waste materials, the facility meets the following requirements: (Section 265.17) [3745-65-17]				
a) Protection from sources of ignition.	—	—	✓	—
b) Physical separation of incompatible waste materials.	—	—	✓	—
c) "No Smoking" or "No Open Flames" signs near areas where Ignitable or Reactive wastes are handled.	—	—	✓	—
d) Any comingling of waste materials is done in a controlled, safe manner as prescribed by Section 265.17(b). [3745-65-17(B)]	—	—	✓	—

REMARKS - # 3 NO INSPECTION PLAN DEVELOPED  
 # 4 NO PERSONNEL TRAINING SPECIFIC TO HAZARDOUS  
 WASTE MANAGEMENT

# RCRA INTERIM STATUS INSPECTION FORM

Yes No N/A Remark #

## Subpart C: Preparedness and Prevention

1. Has there been a fire, explosion or non-planned release of hazardous waste at this facility? (265.31) [3745-65-31] — ✓ — —
2. If required due to actual hazards associated with the waste material, the facility has the following equipment: (265.32) [3745-65-32(A)(B)(C)(D)]
  - a) Internal alarm system. — — ✓ — #
  - b) Access to telephone, radio or other device for summoning emergency assistance. — ✓ — — 1
  - c) Portable fire control equipment. — — ✓ —
  - d) Water of adequate volume and pressure via hoses sprinkler, foamers or sprayers. — — ✓ —
3. All required safety, fire and communications equipment is tested and maintained as necessary; testing and maintenance are documented. (265.33) [3745-65-33] — ✓ — — # 1
4. If required due to the actual hazards associated with the waste material, personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled. (265.34) [3745-65-34] ✓ — — — # 2
5. If required due to the actual hazards associated with the waste material, adequate aisle space to allow unobstructed movement or emergency or spill control equipment is maintained. (265.35) [3745-65-35] — — ✓ —
6. If required due to the actual hazards associated with the waste material, the facility has attempted to make appropriate arrangements with local emergency service authorities to familiarize them with the possible hazards and the facility layout. (265.37(a)) [3745-65-37(A)] — — ✓ — # 3
7. Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements the refusal has been documented. (265.37(b)) [3745-65-37(B)] — — ✓ —

REMARKS - # 1 REQUIRES COMMUNICATION DEVICE BE IMMEDIATELY AVAILABLE AT THE SCENE OF OPERATIONS. NO PHONE WAS AVAILABLE  
 PREPAREDNESS AND PREVENTION - 1 DURING OUR INSPECTION.

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# 2 TRUCKS EQUIPPED WITH RADIOS

# 2 MATERIAL IS NOT IGNITABLE OR REACTIVE

# RCRA INTERIM STATUS INSPECTION FORM

Yes No N/A Remark #

## Subpart D: Contingency and Emergency

1. The facility has a written Contingency Plan designed to minimize hazards from fire, explosions or unplanned releases of hazardous wastes (265.51) [3745-65-52(A)(B)(C)(D)(E)] and contains the following components:
  - a) Actions to be taken by personnel in the event of an emergency incident. — ☒ — # 1
  - b) Arrangements or agreements with local or state emergency authorities. — ☒ — # 1
  - c) Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator. — ☒ — # 1
  - d) A list of all emergency equipment including location, physical description and outline of capabilities. — ☒ — # 1
  - e) If required due to the actual hazards associated with the waste(s) handled, an evacuation plan for facility personnel. (265.51(f)) [3745-65-52(F)] — ☒ — # 1
2. A copy of the Contingency Plan and any plan revisions is maintained on-site and has been submitted to all local and state emergency service authorities that might be required to participate in the execution of the plan. (265.53) [3745-65-53(A)(B)] — ☒ — # 1
3. The plan is revised in response to facility, equipment and personnel changes or failure of the plan. (265.54) [3745-65-54] — ☒ — # 1
4. An emergency coordinator is designated at all times (on-site or on-call) is familiar with all aspects of site operation and emergency procedures and has the authority to implement all aspects of the Contingency Plan. (265.56) [3745-65-55] — ☒ — # 2
5. If an emergency situation has occurred, the emergency coordinator has implemented all or part of the Contingency Plan and has taken all of the actions and made all of the notifications deemed necessary under Sections 265.56(a-j). [3745-65-56(A-j)] — ☒ — # 1, # 2

REMARKS - # 1 NO CONTINGENCY PLAN HAS BEEN DEVELOPED  
 # 2 NO DESIGNATED EMERGENCY COORDINATOR

# RCRA INTERIM STATUS INSPECTION FORM

Yes No N/A Remark #

## Subpart E: Manifests/Records/Reporting

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH ON-SITE AND OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

1. The operator maintains a written operating record at his facility as required by Section 265.73 [3745-65-73(A)] which contains the following information:
  - a) Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date(s) and method(s) pertinent to such treatment, storage or disposal. (265.73(b)(1)) [3745-65-73(B)(1)]
  - b) Common name, EPA Hazardous Waste Identification Number and physical state (liquid, solid, gas) of the waste(s).
  - c) The estimated (or actual) weight, volume or density of the waste material(s).
  - d) A description of the method(s) used to treat, store or dispose of the waste(s) using the EPA Handling Codes listed in 45 FR 33252 (May 19, 1980).
  - e) The present physical location of each hazardous waste within the facility.
  - f) FOR DISPOSAL FACILITIES, the location and quantity of each hazardous waste recorded on a map of the facility and cross-references to any pertinent manifest document number(s). (265.73(b)(2)) [3745-65-73(B)(2)]
  - g) Records of any waste analyses and trial tests required to be performed.
  - h) Records of the inspections required under Section 265.15 [3745.65.14] (General Inspection Requirements - Subpart B).
  - i) Records of any monitoring, testing or analytical data required under other Subparts as referenced by Section 265.73(b)(6). [3745-65-73(B)(6)]
  - j) Records of Closure cost estimates and Post-Closure (DISPOSAL ONLY) cost estimates required under Subpart G.

—	✓	—	—
—	✓	—	—
—	✓	—	—
—	✓	—	—
—	✓	—	—
—	✓	—	—
—	✓	—	—
—	✓	—	—
—	✓	—	—

# RCRA INTERIM STATUS INSPECTION FORM

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
2. The operators has submitted an annual Treatment-Storage-Disposal Operating Report (by March 1) containing all of the operating information required under Section 265.75. [3745-65-75]	—	✓	—	# 2

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO ONLY OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

3. Manifests received by the facility are signed and dated; one copy is given to the transporter, one copy is sent to the generator within 30 days and one copy is kept for at least 3 years. (265.71) [3745-65-71(A)]	—	✓	—	# 3
a) If shipping papers are used in lieu of manifests (bulk shipments, etc.) the same requirements are met. (265.71(b)) [3745-65-71(B)]	—	✓	—	# 3
b) Any significant discrepancies in the manifest, as defined in Section 265.72(a) [3745-65-72(A)] are noted in writing on the manifest document. (265.71(a)(2)) [3745-65-71(A)(2)]	—	✓	—	# 3
4. Any manifest discrepancies have been reconciled within 15 days as required by Section 265.72(b) <u>or</u> the operator has submitted the required information to the Regional Administrator/Director. [3745-65-72(B)]	—	✓	—	# 3
5. If the facility has accepted any unmanifested hazardous wastes from off-site sources (except from small quantity generators) for treatment, storage, or disposal an unmanifested waste report containing all the information required by Section 265.76 has been submitted to the Regional Administrator/Director within 15 days. [3745-65-76(A)]	—	✓	—	# 3

REMARKS — #1 FACILITY DOES NOT HAVE A WRITTEN OPERATING RECORD.  
 #2 ANNUAL REPORTS HAVE NOT BEEN SUBMITTED.  
 #3 MANIFESTS ARE NOT USED

# RCRA INTERIM STATUS INSPECTION FORM

## SUBPART F: GROUND WATER MONITORING

Type of facility: (check appropriately)

- a) surface impoundment
- b) landfill
- c) land treatment facility

Yes No Unknown Waived

☒ ☒ ☐ ☐

**NOTE:** UNDER INTERIM STATUS STANDARDS A WASTE PILE IS NOT SUBJECT TO GROUND WATER MONITORING REQUIREMENTS. PLEASE NOTE, HOWEVER, THAT IF ANY HAZARDOUS WASTE FROM A WASTE PILE IS LEFT IN PLACE AT CLOSURE, THE "WASTE PILE" BECOMES A "LANDFILL" AND MUST MEET POST-CLOSURE RULES APPLICABLE TO LANDFILLS.

### Ground Water Monitoring Program

1. Was the ground water monitoring program reviewed prior to site visit?  
If "No",

☐ ☒ #1

a) Was the ground water program reviewed at the facility prior to site inspection?

☐ ☒ #1

2. Has a ground water monitoring program (capable of determining the facility's impact on the quality of ground water in the uppermost aquifer underlying the facility) been implemented?  
265.90(a) [3745-65-90(A)]

☐ ☒ #1

3. Has at least one monitoring well been installed in the uppermost aquifer hydraulically upgradient from the limit of the waste management area? 265.91(a)(1) [3745-65-91(A)(1)]

☐ ☐ N/A #2

a) Are ground water samples from the uppermost aquifer, representative of background ground water quality and not affected by the facility (as ensured by proper well number, location and depths)?

☐ ☐ N/A #2



	<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Waived</u>
4. Have at least three monitoring wells been installed hydraulically downgradient at the limit of the waste handling or management area? 265.91(a)(2) [3745-65-91(A)(2)]	—	—	N/A	AZ
a) Do well number, locations and depths ensure prompt detection of any statistically significant amounts of hazardous waste or hazardous waste constituents that migrate from the waste management area to the uppermost aquifer?	—	—		
5. Have the locations of the waste management areas been verified to conform with information in the ground water program?	—	—	—	
a) If the facility contains multiple waste management components, is each component adequately monitored?	—	—		
6. Do the numbers, locations, and depths of the ground water monitoring wells agree with the data in the ground water monitoring system program? If "No", explain discrepancies.	—	—	—	
7. Well completion details. 265.91(c) [3745-65-91(C)]				
a) Are wells properly cased?	—	—	—	
b) Are wells screened (perforated) and packed where necessary to enable sampling at appropriate depths?	—	—	—	
c) Are annular spaces properly sealed to prevent contamination of ground water?	—	—	—	

	Yes	No	Unknown	Waived
8. Has a ground water sampling and analysis plan been developed? 265.92(a) [3745-65-92(A)]	—	—	N/A	# 2
a) Has it been followed?	—	—	—	—
b) Is the plan kept at the facility?	—	—	—	—
c) Does the plan include procedures and techniques for:				
1) Sample collection?	—	—	—	—
2) Sample preservation?	—	—	—	—
3) Sample shipment?	—	—	—	—
4) Analytical procedures?	—	—	—	—
5) Chain of custody control?	—	—	—	—
9. Are the required parameters in ground water samples being tested quarterly for the first year? 265.92(b) [3745-65-92(B)] and 265.92(c)(1) [3745-65-92(C)]	—	—	—	—
a) Are the ground water samples analyzed for the following:				
1) Parameters characterizing the suitability of the ground water as a drinking water supply? 265.92(b)(1) [3745-65-92(B)(1)]	—	—	—	—
2) Parameters establishing ground water quality? 265.92(b)(2) [3745-65-92(B)(2)]	—	—	—	—
3) Parameters used as indicators of ground water contamination? 265.92(b)(2) [3745-65-92(B)(3)]	—	—	—	—
(1) For each indicator parameter are at least four replicate measurements obtained at each upgradient well for each sample obtained during the first year of monitoring? 265.92(c)(2) [3745-65-92(C)(2)]	—	—	—	—

	Yes	No	Unknown	Waived
(11) Are provisions made to calculate the initial background arithmetic mean and variance of the respective parameter concentrations or values obtained from the upgradient well(s) during the first year? 265.92(c)(2) [3745-65-92(C)(2)]	—	—	~ / A	# 2
b) For facilities which have completed first year ground water sampling and analysis requirements:				
1) Have samples been obtained and analyzed for the ground water quality parameters at least annually? 265.92(d)(1) [3745-65-92(D)(1)]	—	—		
2) Have samples been obtained and analyzed for the indicators of ground water contamination at least semi-annually? (4 replicate measurements per sample) 265.92(d)(2) [3745-65-92(D)(2)]	—	—		
c) Were ground water surface elevations determined at each monitoring well each time a sample was taken? 265.92(e) [3745-65-92(E)]	—	—		
d) Were ground water surface elevations evaluated annually to determine whether the monitoring wells are properly placed? 265.92(f) [3745-65-92(E)]	—	—		
e) If it was determined that modification of the number, location or depth of monitoring wells was necessary, was the system brought into compliance with 265.91(a) [3745-65-91(A)]? 265.93(f) [3745-65-93(F)]	—	—		
10. Has an outline of a ground water quality assessment program been prepared? 265.93(a) [3745-65-93(A)]	—	—		
a) Does it describe a program capable of determining:				
1) Whether hazardous waste or hazardous waste constituents have entered the ground water?	—	—		
2) The rate and extent of migration of hazardous waste or hazardous waste constituents in ground water?	—	—		
3) Concentrations of hazardous waste or hazardous waste constituents in ground water?	—	—		

	Yes	No	Unknown	Waived
b) After the first year of monitoring, have at least four replicate measurements of each indicator parameter been obtained for samples taken for each well? 265.93(b) [3745-65-93(B)]	—	—	N/A	# 2
1) Were the results compared with the initial background means from the upgradient well(s) determined during the first year?	—	—		
(i) Was each well considered individually?	—	—		
(ii) Was the Student's t-test used (at the 0.01 level of significance?)	—	—		
2) Was a significant increase (or pH decrease as well) found in the:				
(i) Upgradient wells (If "Yes", Compliance Checklist A-2 must also be completed.) [3745-65-93(C)(1)]	—	—		
(ii) Downgradient wells	—	—		
If "Yes", owner or operator must obtain, split, and analyze additional samples from the wells where a significant difference was detected. If the difference is confirmed, the Director should be notified in writing within 7 days and a ground water assessment plan within 15 days. [3745-65-93(C)(2) and (D)(2)(3)]				
11. Have records been kept of analyses for parameters in 265.92(c) and (d) [3745-65-92(C) and (D)]? 265.94(a)(1) [3745-65-94(A)(1)]	—	—		
12. Have records been kept of ground water surface elevations taken at the time of sampling for each well? 265.94(a)(1) [3745-65-94(A)(1)]	—	—		
13. Have records been kept of required elevations in 265.93(b) [3745-65-93(B)]? 265.94(a)(1) [3745-65-94(A)(1)]	—	—		
14. Have the following been submitted to the Director of the Ohio EPA: 265.94(a)(2) [3745-65-94(A)(2)]				
a) Initial background concentrations of parameters listed in 265.92(b) [3745-65-92(B)] within 15 days after completing each quarterly analysis required during the first year?	—	—	✓	✓

	<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Waived</u>
b) For each well, have any parameters whose concentrations or values have exceeded the maximum contaminant levels allowed in drinking water supplied been separately identified?	—	—	N/A	#2
c) Annual reports including: [3745-65-94(A)(2)]				
1) Concentrations or values of parameters used as indicators of ground water contamination for each well along with required evaluations under 265.93(b) [3745-65-93(B)]?	—	—		
2) Any significant differences from initial background values in upgradient wells separately identified?	—	—		
3) Results of the evaluation of ground water surface elevations?	—	—		

Comments: Subpart F

REMARKS - #1 APPLICATION OF SUBPART F REQUIRES DEVELOPMENT OF A GROUND WATER MONITORING PROGRAM WHICH INCLUDES A SAMPLING AND ANALYSIS PLAN, PROGRAM EVALUATION AND REPORTING REQUIREMENTS THROUGHOUT THE ACTIVE LIFE OF THE FACILITY

#2 BECAUSE THE ENVIRONMENTAL ASSESSMENT DOES NOT FULFILL THE REGULATORY REQUIREMENTS OF SUBPART F, THESE ITEMS WERE 'NOT APPLICABLE' TO THIS EVALUATION.

## RCRA INTERIM STATUS INSPECTION FORM

Yes No N/A Remark #

Subpart G: Closure and Post-Closure

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH DISPOSAL AND NON-DISPOSAL FACILITIES.

- |  |   |   |   |     |
|--|---|---|---|-----|
| 1. A written Closure Plan is on file at the facility and contains the following elements: (Section 265.112) [3745-66-12]   | — | ✓ | — | # 1 |
| a) A description of how and when the facility will be closed. (265.112(a)(1)) [3745-66-12(A)(1)]   | — | ✓ | — | —   |
| b) A description of how any of the applicable closure requirements in other Subparts of Section 265 [3745-66] (Tanks, Surface Impoundments, Landfill, etc.) will be carried out. | — | ✓ | — | —   |
| c) An estimate of the maximum amount of hazardous wastes being treated or in storage at the facility. (NOTE: Maximum inventory should agree with the permit.)                    | — | ✓ | — | —   |
| d) A description of steps taken to decontaminate facility equipment.   | — | ✓ | — | —   |
| e) The year closure is expected to begin and a schedule for the various phases of closure.   | — | ✓ | — | —   |
| 2. The Closure Plan has been amended within 60 days in response to any changes in facility design, processes or closure dates. (265.112(4)(B)) [3745-66-12(B)]                   | — | ✓ | — | —   |
| 3. The Closure Plan has been submitted to the Regional Administrator/Director 180 days prior to beginning the Closure process. (265.112(4)(C)) [3745-66-12(C)]                   | — | ✓ | — | —   |

REMARKS - #1, - NO CLOSURE PLAN HAS BEEN DEVELOPED.

# RCRA INTERIM STATUS INSPECTION FORM

Yes No N/A Remark #

## Subpart H: Financial Requirements

1. The owner or operator of the facility has established financial assurance for closure by use of one of the following: (265.143) [3745-66-43]
  - a) A closure trust fund, or
  - b) A surety bond, or
  - c) A closure letter of credit, or
  - d) A combination of financial mechanisms.
2. A written cost estimate for closure of the facility (as specified in the closure plan) is available. How much is it?
3. When was the most recent estimate made?
4. A written cost estimate for post closure care of the facility (if applicable) is available. How much is it?
5. When was the most recent estimate made?

—	✓	—	# 1
—	✓	—	# 1
—	✓	—	# 1
—	✓	—	# 1
—	✓	—	# 1
—	✓	—	# 1
—	✓	—	# 1
—	✓	—	# 1

## REMARKS, GENERAL INTERIM STATUS REQUIREMENTS

REMARKS - #1 NO FINANCIAL ASSURANCE HAS BEEN ESTABLISHED.  
 NOTE: THIS FORM DOES NOT INCLUDE LIABILITY  
 REQUIREMENTS OF 40 CFR 265.147 AND  
 OAC 3745-66-47.

# RCRA INTERIM STATUS INSPECTION FORM

Yes No N/A Remark #

## Subpart N: Landfills

1. General Operating Requirements. Does the facility provide the following:

NOTE: 1a, 1b AND 1c ARE EFFECTIVE ON NOVEMBER 19, 1981.

a) Diversion of run-on away from active portions of the fill?  
(265.302(a)) [3745-68-02(A)]

— ☒ — # 1

b) Collection of run-off from active portions of the fill?  
(265.302(b)) [3745-68-02(B)]

— ☒ — # 1

c) Is collected run-off treated? [3745-68-02(B)]

— ☒ — # 1

d) Control of wind dispersal of hazardous waste? (265.302(d)) [3745-68-02(D)]

— ☒ — # 1

2. Surveying and Recordkeeping. Does the operating record include: [3745-68-09]

a) a map showing the exact location and dimensions of each cell?  
(269.309(a)) [3745-68-09(A)]

— ☒ — # 1

b) The contents of each cell and the location of each hazardous waste  
type within each cell? (269.309(b)) [3745-68-09(B)]

— ☒ — # 1

3. Closure and Post-Closure

a) Is the closure Plan available for inspection?

— ☒ — # 2

b) Has this plan been submitted to the Regional Administrator?

— ☒ — # 2

c) Has Closure begun?

— ☒ — # 2

d) Is Closure cost estimate available by?

— ☒ — # 2

REMARKS - # 1 OPERATING REQUIREMENTS INCLUDE SPECIFIC DESIGN,  
CONSTRUCTION, OPERATION AND MAINTENANCE CRITERIA  
FOR RUN-OFF AND RUN-ON CONTROL AND  
WIND DISPERSAL

LANDFILLS - 1

# 2 - NO CLOSURE PLANS DEVELOPED

# 3 - A DRUM WAS OBSERVED IN WASTE MATERIAL

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# RCRA INTERIM STATUS INSPECTION FORM

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
4. Special requirements for ignitable or reactive waste. (265.312(a)(B))				
a) Are ignitable or reactive waste treated so the resulting mixture is no longer ignitable or reactive?	—	—	✓	—
<u>NOTE:</u> IF WASTE IS RENDERED NON-REACTIVE OR NON-IGNITABLE, SEE TREATMENT REQUIREMENTS. IF NOT, THE PROVISIONS OF 40 CFR 265.17(b) APPLY. [3745-65-17]				
5. Special requirements for Incompatible Wastes.				
a) Does the owner or operator dispose of incompatible wastes in separate cells? If not, the provisions of 40 CFR 265.17(b) apply. [3745-65-17]	—	—	✓	—
6. Special requirements for Containers:				
Are empty containers crushed flat, shredded, or similarly reduced in volume before being buried beneath the surface of the landfill? (265.315) [3745-57-85]	—	✓	—	# 3
7. Special requirements for Liquid Waste.				
Bulk or non-containerized liquid waste or waste containing free liquids is placed in a landfill having a liner and leachate collection and removal system meeting 264.301(a) requirements or is treated so that free liquids are no longer present. (265.314(a)) [3745-68-14(A)]	—	✓	—	—
8. A written Post-Closure Plan is on file at the facility.	—	✓	—	# 2
9. The Post-Closure Plan has been amended within 60 days in response to any changes in facility design or operation. (265.118(b))	—	✓	—	# 2
10. The Post-Closure Plan has been submitted to the Regional Administrator/Director 180 days prior to beginning closure. (265.118(c))	—	✓	—	# 2
11. The property owner has attached a notation to the property deed or other instrument which will notify any potential purchaser that the property has been used to manage hazardous waste and future use of the property is restricted under Section 265.117(c) [3745-66-17(C)] as required in Section 265.120 [3745-66-10].	—	✓	—	—

# RCRA INTERIM STATUS INSPECTION FORM

1. Has the facility submitted a Part A to Ohio?
  2. If "yes", is it complete and accurate?
  3. Has the facility submitted a Part B?
  4. Was advance notice of the inspection given? If so, how far in advance?
- IF THE SITE HAS RECEIVED A PART B PERMIT, USE THE RCRA STATUS INSPECTION FORM.

Yes	No	N/A	Remark #
—	✓	—	—
—	—	✓	—
—	✓	—	—
✓	—	—	~ 2 wks

## REMARKS, GENERAL INFORMATION

Include a brief description of site activity and waste handling.

REMARK #1 - US EPA ID NUMBER WAS OBTAINED BY US EPA FOR TRACKING PURPOSES. ASF HAS NOT APPLIED FOR ID NUMBER FOR THIS PRODUCTION FACILITY.

SITE DESCRIPTION - ASF IS A STEEL CASTING FACILITY WHICH MANUFACTURES EQUIPMENT FOR THE RAILROAD INDUSTRY. STEEL SCRAP IS USED EXCLUSIVELY IN THE SAND CASTING OPERATIONS. ELECTRIC ARC FURNACE DUST IS COLLECTED IN A BAGHOUSE AND THEN TRANSFERRED INTO DRUMS. PRIOR TO MAY, 1987 THIS WASTE (D006, D008) WAS MIXED WITH CLARIFIER SLUDGE AND DISPOSED OFF-SITE. INFORMATION - (PRESENTLY THIS MATERIAL IS USED TO RECHARGE FURNACE.)

Revised 12/84

# RCRA INTERIM STATUS INSPECTION FORM

## 40 CFR 262 (OAC 3745-52) GENERATOR REQUIREMENTS

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
1. The hazardous waste(s) generated at this facility have been tested or are acknowledged to be hazardous waste(s) as defined in Section 261 and in compliance with the requirements of Sections 262.11. [3745-52-11(D)]	—	✓	—	# 1
2. Does this facility generate any hazardous wastes that are excluded from regulation under Section 261.4 [3745-51-04] (statutory exclusions) or Section 261.6 [3745-51-06(A)(1)] (recycle/reuse)?	—	✓	—	—
3. Does this facility have waste or waste treatment equipment that is excluded from regulation because of totally enclosed treatment (Section 265.1(c)(9)) [3745-65-01] or via operation of an elementary neutralization unit and/or wastewater treatment unit (Section 265.1(c)(10) [3745-65-01]	—	✓	—	—
4. The generator meets the following requirements with respect to the preparation, use and retention of the hazardous waste manifest:				
a) The manifest form used contains all of the information required by Section 262.21(a) and (b) [3745-52-21] and the minimum number of copies required by Section 262.22 [3745-52-22].	—	✓	—	# 2
b) The generator has designated at least one permitted disposal facility and has/will designate an alternate facility or instructions to return waste in compliance with Section 262.20 [3745-52-20(B)(C)(D)].	—	✓	—	# 2
c) Prepared manifests have been signed by the generator and initial transporter in compliance with Section 262.23 [3745-52-23(A)(1 and 2)].	—	✓	—	# 2
d) The generator has complied with manifest exception reporting requirements (investigate after 35 days, report after 45 days) in Section 262.42(a)(b) [3745-52-42].	—	✓	—	# 2
e) Signed copies of all hazardous waste manifests and any documentation required for Exception Reports are retained for at least 3 years as required by Section 262.40 [3745-52-40]. (262.40(a)) [3745-52-40(a)]	—	✓	—	# 2

# RCRA INTERIM STATUS INSPECTION FORM

5. The generator meets the following hazardous waste pre-transport requirements:

- a) Prior to offering hazardous wastes for transport off-site the waste material is packaged, labeled and marked in accord with applicable DOT regulations (Section 262.30, 262.31 and 262.32(a)) [3745-52-30, 3745-52-31, 3745-52-32]
- b) Prior to offering hazardous wastes for transport off-site each container with a capacity of 110 gallons (416 liters) or less is affixed with a completed hazardous waste label as required by Section 262.32(b) [3745-52-32].
- c) The generator meets requirements for properly placarding or offering to properly placard the initial transporter of the waste material in compliance with Section 262.33 [3745-52-33].

6. Hazardous wastes imported from or exported to foreign countries are handled in accordance with the requirements of Section 262.50 [3745-52-50]

7. If the generator elects to store hazardous waste on-site in containers or tanks for 90 days or less without a RCRA storage permit as provided under Section 262.34 [3745-52-34], the following requirements with respect to such storage are met:

- a) The containers are clearly marked with the words "Hazardous Waste".
- b) The date that accumulation began is clearly marked on each container.

8. The generator has provided a Personnel Training Program in compliance with Section 265.16(a)(b)(c) [3745-65-16(A)(B)(C)] including instruction in safe equipment operation and emergency response procedures, training new employees within 6 months and providing an annual training program refresher course. (Section 262.34) [3745-52-34(A)(4)]

9. The generator keeps all of the records required by Section 265.16(d)(e) [3745-65-16(D)(E)] including written job titles, job descriptions and documented employee training records (Section 262.34) [3745-52-34(A)(4)].

Yes No N/A Remark #

— ✓ — # 3

— ✓ — # 3

— ✓ — # 3

— — ✓ —

— ✓ —

— ✓ —

— ✓ — # 4

— ✓ — # 4

RCRA INTERIM STATUS INSPECTION FORM

NOTE:

SHORT-TERM STORAGE FOR 90 DAYS OR LESS IN TANKS AND CONTAINERS ALSO REQUIRES THAT REGULATIONS IN SECTION 265 (3/45-65), SUBPARTS C AND D (PREPAREDNESS AND PREVENTION PLUS CONTINGENCY AND EMERGENCY) AND CERTAIN PORTIONS OF THE "CONTAINERS" AND "TANKS" RULES BE MET. COMPLETE THE APPROPRIATE SECTIONS OF THE INSPECTION FORM.

REMARKS, GENERATOR REQUIREMENTS

AND ACKNOWLEDGED

1 - ELECTRIC INC FURNACE DUST AND SLUDGE TESTED AND ACKNOWLEDGED  
TO BE HAZARDOUS BY EP TOXICITY CRITERIA FOR LEAD (DOUG) AND  
CADMIUM (DOUG). HOWEVER, GRINDING SLUDGE HAS NOT BEEN

CHARACTERIZED

2 - MANIFESTS WERE NEVER PREPARED OR MAINTAINED,  
3 - SHIPMENTS WERE NOT PLACARDED

4 - THE REGULATORY REQUIREMENTS FOR THESE ITEMS ARE SPECIFIC  
TO PERSONS RESPONSIBLE FOR HAZARDOUS WASTE MANAGEMENT.

5 - 'Release' OF EHF DUST BENEATH BAGHOUSE  
(FROM FOLLOWING PAGE)

# RCRA INTERIM STATUS INSPECTION FORM

Yes    No    N/A

## Subpart C: Preparedness and Prevention

1. Has there been a fire, explosion or non-planned release of hazardous waste at this facility? (265.31) [3745-65-31] ✓    —    —    —
2. If required due to actual hazards associated with the waste material, the facility has the following equipment: (265.32) [3745-65-32(A)(B)(C)(D)]
  - a) Internal alarm system. —    —    ✓    —
  - b) Access to telephone, radio or other device for summoning emergency assistance. ✓    —    —    —
  - c) Portable fire control equipment. —    —    ✓    —
  - d) Water of adequate volume and pressure via hoses sprinkler, foamers or sprayers. —    —    ✓    —
3. All required safety, fire and communications equipment is tested and maintained as necessary; testing and maintenance are documented. (265.33) [3745-65-33] —    ✓    —    —
4. If required due to the actual hazards associated with the waste material, personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled. (265.34) [3745-65-34] ✓    —    —    —
5. If required due to the actual hazards associated with the waste material, adequate aisle space to allow unobstructed movement of emergency or spill control equipment is maintained. (265.35) [3745-65-35] —    ✓    —    —
6. If required due to the actual hazards associated with the waste material, the facility has attempted to make appropriate arrangements with local emergency service authorities to familiarize them with the possible hazards and the facility layout. (265.37(a)) [3745-65-37(A)] —    —    ✓    —
7. Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements the refusal has been documented. (265.37(b)) [3745-65-37(B)] —    —    ✓    —

# RCRA INTERIM STATUS INSPECTION FORM

Yes No N/A Remark #

## Subpart D: Contingency and Emergency

1. The facility has a written Contingency Plan designed to minimize hazards from fire, explosions or unplanned releases of hazardous wastes (265.51) [3745-65-52(A)(B)(C)(D)(E)] and contains the following components:
 

a) Actions to be taken by personnel in the event of an emergency incident.	—	✓	—	ASF HAS NOT DEVELOPED A CONTINGENCY PLAN
b) Arrangements or agreements with local or state emergency authorities.	—	✓	—	—
c) Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator.	—	✓	—	—
d) A list of all emergency equipment including location, physical description and outline of capabilities.	—	✓	—	—
e) If required due to the actual hazards associated with the waste(s) handled, an evacuation plan for facility personnel. (265.51(f)) [3745-65-52(F)]	—	✓	—	—
2. A copy of the Contingency Plan and any plan revisions is maintained on-site and has been submitted to all local and state emergency service authorities that might be required to participate in the execution of the plan. (265.53) [3745-65-53(A)(B)]
 

	—	✓	—	—
--	---	---	---	---
3. The plan is revised in response to facility, equipment and personnel changes or failure of the plan. (265.54) [3745-65-54]
 

	—	✓	—	—
--	---	---	---	---
4. An emergency coordinator is designated at all times (on-site or on-call) is familiar with all aspects of site operation and emergency procedures and has the authority to implement all aspects of the Contingency Plan. (265.56) [3745-65-55]
 

	—	✓	—	—
--	---	---	---	---
5. If an emergency situation has occurred, the emergency coordinator has implemented all or part of the Contingency Plan and has taken all of the actions and made all of the notifications deemed necessary under Sections 265.56(a-j). [3745-65-56(A-j)]
 

	—	✓	—	—
--	---	---	---	---

# RCRA INTERIM STATUS INSPECTION FORM

## Subpart I: Management of Containers

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Rem.</u>
1. Hazardous wastes are stored in containers which are:		<input checked="" type="checkbox"/>		
a) Closed (265.173) [3745-66-73(A)]	<input checked="" type="checkbox"/>			
b) In good physical condition (265.171) [3745-66-71]	<input checked="" type="checkbox"/>			
c) Compatible with the wastes stored in them (265.172) [3745-66-72]				
2. Containers are stored closed except when it is necessary to add or remove wastes. (265.173(a)) [3745-66-73(A)]		<input checked="" type="checkbox"/>		
3. Hazardous waste containers are stored, handled and opened in a manner which prevents container rupture or leakage. (265.173(b)) [3745-66-73(B)]	<input checked="" type="checkbox"/>			SPILLAGE EVIDENT ON GROUND ✓
4. The area where containers are stored is inspected for evidence of leaks or corrosion at least weekly and such inspections are documented. (265.174) [3745-66-74]		<input checked="" type="checkbox"/>		
5. Containers holding Ignitable or Reactive waste(s) are located at least 50 feet (15 meters) from the property line and the general requirements for handling such wastes in Section 265.17 (physical separation, signs and safety) are met (265.176) [3745-66-76]			<input checked="" type="checkbox"/>	
6. Containers holding hazardous wastes are stored separate from other materials which may interact with the waste in a hazardous manner. (265.177(c)) [3745-66-77(C)]			<input checked="" type="checkbox"/>	



AUGUST 27, 1987, 10:00 AM  
Date and Time of Inspection

RCRA INTERIM STATUS INSPECTION FORM

HWFAB #

U.S. EPA I.D. # OH0981904418

(SEE  
REMARK  
#1)

City: ALLIANCE

GENERAL INFORMATION

Facility: AMERICAN STEEL FOUNDRIES Address: 1001 E. BROADWAY

State: OHIO Zip Code: 44601 County: STARK

Telephone: 216/823-6150

INSPECTION PARTICIPANT(S)

(Telephone)

(Title)

- |    |                         |   |                     |
|----|-------------------------|---|---------------------|
| 1. | <u>DAVID E. STATLER</u> | <u>WORKS ENGINEER</u>                         | <u>216/823-6150</u> |
| 2. | <u>CHARLES A RUDD</u>   | <u>MGR. QUALITY AND ENVIRONMENTAL AFFAIRS</u> | <u>312/938-4018</u> |
| 3. |                         |   |                     |

INSPECTOR(S)

- |    |                         |                                |                     |
|----|-------------------------|--------------------------------|---------------------|
| 1. | <u>KEVIN M. BONZO</u>   | <u>ENVIRONMENTAL SCIENTIST</u> | <u>216/425-9171</u> |
| 2. | <u>JENNIE TUCKERMAN</u> | <u>ENVIRONMENTAL SCIENTIST</u> | <u>216/425-9171</u> |
| 3. |                         |                                |                     |

INSTALLATION ACTIVITY

Mark One

- ☒ Generator only (G)  
☐ Transporter (T)  
☐ TSDF only  
☐ G-T  
☐ G-TSDF  
☐ T-TSDF  
☐ G-T-TSDF

- ☒ General Facility Standards, Preparedness  
and Prevention, Contingency and Emergency  
Manifests/Records/Reporting, Closure  
☒ Containers S01  
☐ Tanks S02/T01  
☐ Surface Impoundments S04/T02  
☐ Incineration/Thermal Treatment

- ☐ Waste Piles S03  
☐ Land Treatment D01  
☐ Landfills D00  
☐ Chemical/Physical/  
Biological T04  
☐ Groundwater Monitoring  
☐ Post-Closure

If the site is a TSDF, check the boxes indicating which areas were reviewed.

# RCRA INTERIM STATUS INSPECTION FORM

1. Has the facility submitted a Part A to Ohio?
2. If "yes", is it complete and accurate?
3. Has the facility submitted a Part B?
4. Was advance notice of the inspection given? If so, how far in advance?

Yes	No	N/A	Remark #
—	✓	—	—
—	—	✓	—
—	✓	—	—
✓	—	—	~ 2 WKS

IF THE SITE HAS RECEIVED A PART B PERMIT, USE THE RCRA STATUS INSPECTION FORM.

## REMARKS, GENERAL INFORMATION

Include a brief description of site activity and waste handling.

REMARK #1 - US EPA ID NUMBER WAS OBTAINED BY US EPA FOR TRACKING PURPOSES. ASF HAS NOT APPLIED FOR ID NUMBER FOR THIS PRODUCTION FACILITY.

SITE DESCRIPTION - ASF IS A STEEL CASTING FACILITY WHICH MANUFACTURES EQUIPMENT FOR THE RAILROAD INDUSTRY. STEEL SCRAP IS USED EXCLUSIVELY IN THE SAND CASTING OPERATIONS. ELECTRIC ARC FURNACE DUST IS COLLECTED IN A BAGHOUSE AND THEN TRANSFERRED INTO DRUMS. PRIOR TO MAY, 1987 THIS WASTE (D006, D008) WAS MIXED WITH CLARIFIER SLUDGE AND DISPOSED OFF-SITE. INFORMATION - (PRESENTLY THIS MATERIAL IS USED TO RECHARGE FURNACE.)

Revised 12/84

# RCRA INTERIM STATUS INSPECTION FORM

## 40 CFR 262 (OAC 3745-52) GENERATOR REQUIREMENTS

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
1. The hazardous waste(s) generated at this facility have been tested or are acknowledged to be hazardous waste(s) as defined in Section 261 and in compliance with the requirements of Sections 262.11. [3745-52-11(D)]	<u>      </u>	<u>  ✓  </u>	<u>      </u>	<u># 1</u>
2. Does this facility generate any hazardous wastes that are excluded from regulation under Section 261.4 [3745-51-04] (statutory exclusions) or Section 261.6 [3745-51-06(A)(1)] (recycle/reuse)?	<u>      </u>	<u>  ✓  </u>	<u>      </u>	<u>      </u>
3. Does this facility have waste or waste treatment equipment that is excluded from regulation because of totally enclosed treatment (Section 265.1(c)(9)) [3745-65-01] or via operation of an elementary neutralization unit and/or wastewater treatment unit (Section 265.1(c)(10) [3745-65-01]	<u>      </u>	<u>  ✓  </u>	<u>      </u>	<u>      </u>
4. The generator meets the following requirements with respect to the preparation, use and retention of the hazardous waste manifest:				
a) The manifest form used contains all of the information required by Section 262.21(a) and (b) [3745-52-21] and the minimum number of copies required by Section 262.22 [3745-52-22].	<u>      </u>	<u>  ✓  </u>	<u>      </u>	<u># 2</u>
b) The generator has designated at least one permitted disposal facility and has/will designate an alternate facility or instructions to return waste in compliance with Section 262.20 [3745-52-20(B)(C)(D)].	<u>      </u>	<u>  ✓  </u>	<u>      </u>	<u># 2</u>
c) Prepared manifests have been signed by the generator and initial transporter in compliance with Section 262.23 [3745-52-23(A)(1 and 2)].	<u>      </u>	<u>  ✓  </u>	<u>      </u>	<u># 2</u>
d) The generator has complied with manifest exception reporting requirements (investigate after 35 days, report after 45 days) in Section 262.42(a)(b) [3745-52-42].	<u>      </u>	<u>  ✓  </u>	<u>      </u>	<u># 2</u>
e) Signed copies of all hazardous waste manifests and any documentation required for Exception Reports are retained for at least 3 years as required by Section 262.40 [3745-52-40]. (262.40(a)) [3745-52-40(a)]	<u>      </u>	<u>  ✓  </u>	<u>      </u>	<u># 2</u>

# RCRA INTERIM STATUS INSPECTION FORM

5. The generator meets the following hazardous waste pre-transport requirements:

- a) Prior to offering hazardous wastes for transport off-site the waste material is packaged, labeled and marked in accord with applicable DOT regulations (Section 262.30, 262.31 and 262.32(a)) [3745-52-30, 3745-52-31, 3745-52-32]
- b) Prior to offering hazardous wastes for transport off-site each container with a capacity of 110 gallons (416 liters) or less is affixed with a completed hazardous waste label as required by Section 262.32(b) [3745-52-32].
- c) The generator meets requirements for properly placarding or offering to properly placard the initial transporter of the waste material in compliance with Section 262.33 [3745-52-33].

6. Hazardous wastes imported from or exported to foreign countries are handled in accordance with the requirements of Section 262.50 [3745-52-50]

7. If the generator elects to store hazardous waste on-site in containers or tanks for 90 days or less without a RCRA storage permit as provided under Section 262.34 [3745-52-34], the following requirements with respect to such storage are met:

- a) The containers are clearly marked with the words "Hazardous Waste".
- b) The date that accumulation began is clearly marked on each container.

8. The generator has provided a Personnel Training Program in compliance with Section 265.16(a)(b)(c) [3745-65-16(A)(B)(C)] including instruction in safe equipment operation and emergency response procedures, training new employees within 6 months and providing an annual training program refresher course. (Section 262.34) [3745-52-34(A)(4)]

9. The generator keeps all of the records required by Section 265.16(d)(e) [3745-65-16(D)(E)] including written job titles, job descriptions and documented employee training records (Section 262.34) [3745-52-34(A)(4)].

<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
—	✓	—	# 3
—	✓	—	# 3
—	✓	—	# 3
—	—	✓	—
—	✓	—	—
—	✓	—	—
—	✓	—	# 4
—	✓	—	# 4

RCRA INTERIM STATUS INSPECTION FORM

NOTE:

SHORT-TERM STORAGE FOR 90 DAYS OR LESS IN TANKS AND CONTAINERS ALSO REQUIRES THAT REGULATIONS IN SECTION 265 [3745-65], SUBPARTS C AND D (PREPAREDNESS AND PREVENTION PLUS CONTINGENCY AND EMERGENCY) AND CERTAIN PORTIONS OF THE "CONTAINERS" AND "TANKS" RULES BE MET. COMPLETE THE APPROPRIATE SECTIONS OF THE INSPECTION FORM.

REMARKS, GENERATOR REQUIREMENTS

- # 1 - ELECTRIC ARC FURNACE DUST HAS BEEN TESTED AND ACKNOWLEDGED TO BE HAZARDOUS BY EP TOXICITY CRITERIA FOR LEAD (DOGB) AND CADMIUM (DOGB). HOWEVER, GRINDING SLUDGE HAS NOT BEEN CHARACTERIZED
- # 2 —
- # 3 — MANIFESTS WERE NEVER PREPARED OR MAINTAINED, SHIPMENTS WERE NOT PLACARDED
- # 4 — THE REGULATORY REQUIREMENTS FOR THESE ITEMS ARE SPECIFIC TO PERSONS RESPONSIBLE FOR HAZARDOUS WASTE MANAGEMENT.
- # 5 - 'RELEASE' OF EAF DUST BENEATH BAGHOUSE  
→ (FROM FOLLOWING PAGE)

# RCRA INTERIM STATUS INSPECTION FORM

Yes   No   N/A   Remark #

## Subpart C: Preparedness and Prevention

1. Has there been a fire, explosion or non-planned release of hazardous waste at this facility? (265.31) [3745-65-31] ✓   —   —   #5
2. If required due to actual hazards associated with the waste material, the facility has the following equipment: (265.32) [3745-65-32(A)(B)(C)(D)]
  - a) Internal alarm system. —   —   ✓   —
  - b) Access to telephone, radio or other device for summoning emergency assistance. ✓   —   —   —
  - c) Portable fire control equipment. —   —   ✓   —
  - d) Water of adequate volume and pressure via hoses sprinkler, foamers or sprayers. —   —   ✓   —
3. All required safety, fire and communications equipment is tested and maintained as necessary; testing and maintenance are documented. (265.33) [3745-65-33] —   ✓   —   —
4. If required due to the actual hazards associated with the waste material, personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled. (265.34) [3745-65-34] ✓   —   —   —
5. If required due to the actual hazards associated with the waste material, adequate aisle space to allow unobstructed movement or emergency or spill control equipment is maintained. (265.35) [3745-65-35] —   ✓   —   —
6. If required due to the actual hazards associated with the waste material, the facility has attempted to make appropriate arrangements with local emergency service authorities to familiarize them with the possible hazards and the facility layout. (265.37(a)) [3745-65-37(A)] —   —   ✓   —
7. Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements the refusal has been documented. (265.37(b)) [3745-65-37(B)] —   —   ✓   —

# RCRA INTERIM STATUS INSPECTION FORM

Yes No N/A Remark #

## Subpart D: Contingency and Emergency

1. The facility has a written Contingency Plan designed to minimize hazards from fire, explosions or unplanned releases of hazardous wastes (265.51) [3745-65-52(A)(B)(C)(D)(E)] and contains the following components:
  - a) Actions to be taken by personnel in the event of an emergency incident.
  - b) Arrangements or agreements with local or state emergency authorities.
  - c) Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator.
  - d) A list of all emergency equipment including location, physical description and outline of capabilities.
  - e) If required due to the actual hazards associated with the waste(s) handled, an evacuation plan for facility personnel. (265.51(f)) [3745-65-52(F)]
2. A copy of the Contingency Plan and any plan revisions is maintained on-site and has been submitted to all local and state emergency service authorities that might be required to participate in the execution of the plan. (265.53) [3745-65-53(A)(B)]
3. The plan is revised in response to facility, equipment and personnel changes or failure of the plan. (265.54) [3745-65-54]
4. An emergency coordinator is designated at all times (on-site or on-call) is familiar with all aspects of site operation and emergency procedures and has the authority to implement all aspects of the Contingency Plan. (265.56) [3745-65-55]
5. If an emergency situation has occurred, the emergency coordinator has implemented all or part of the Contingency Plan and has taken all of the actions and made all of the notifications deemed necessary under Sections 265.56(a-j). [3745-65-56(A-J)]

ASF HAS NOT DEVELOPED A CONTINGENCY PLAN

✓

✓

✓

✓

✓

✓

✓

# RCRA INTERIM STATUS INSPECTION FORM

## Subpart I: Management of Containers

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
1. Hazardous wastes are stored in containers which are:				
a) Closed (265.173) [3745-66-73(A)]		✓		
b) In good physical condition (265.171) [3745-66-71]	✓			
c) Compatible with the wastes stored in them (265.172) [3745-66-72]	✓			
2. Containers are stored closed except when it is necessary to add or remove wastes. (265.173(a)) [3745-66-73(A)]		✓		
3. Hazardous waste containers are stored, handled and opened in a manner which prevents container rupture or leakage. (265.173(b)) [3745-66-73(B)]	✓			SPILLAGE EVIDENT ON GROUND
4. The area where containers are stored is inspected for evidence of leaks or corrosion at least weekly and such inspections are documented. (265.174) [3745-66-74]		✓		
5. Containers holding Ignitable or Reactive waste(s) are located at least 50 feet (15 meters) from the property line and the general requirements for handling such wastes in Section 265.17 (physical separation, signs and safety) are met (265.176) [3745-66-76]			✓	
6. Containers holding hazardous wastes are stored separate from other materials which may interact with the waste in a hazardous manner. (265.177(c)) [3745-66-77(C)]			✓	



AUGUST 27, 1987 3:00 PM  
Date and Time of Inspection

RCRA INTERIM STATUS INSPECTION FORM

GENERAL INFORMATION

Facility: AMERICAN STEEL FOUNDRIES Address: LAKE PARK BLVD. AT HEACOCK City: SEBRING TWP.  
State: OHIO Zip Code: \_\_\_\_\_ County: MAHONING Telephone: NO TELEPHONE

INSPECTION PARTICIPANT(S)

	(Name)	(Title)	(Telephone)
1.	<u>DAVID E. STATLER</u>	<u>WORKS ENGINEER</u>	<u>216/823-6150</u>
2.	<u>CHARLES A. RUOD</u>	<u>MGR. QUALITY AND ENVIRONMENTAL AFFAIRS</u>	<u>312/938-4018</u>
3.	_____	_____	_____

INSPECTOR(S)

1.	<u>KEVIN M. BONZE</u>	<u>ENVIRONMENTAL SCIENTIST</u>	<u>216/425-9171</u>
2.	<u>JENNIE TUCKERMAN</u>	<u>ENVIRONMENTAL SCIENTIST</u>	<u>216/425-9171</u>
3.	_____	_____	_____

INSTALLATION ACTIVITY

Mark One

- ☐ Generator only (G)
- ☐ Transporter (T)
- ☒ TSDF only
- ☐ G-T
- ☐ G-TSDF
- ☐ T-TSDF
- ☐ G-T-TSDF

If the site is a TSDF, check the boxes indicating which areas were reviewed.

- ☒ General Facility Standards, Preparedness and Prevention, Contingency and Emergency Manifests/Records/Reporting, Closure
- ☐ Containers S01
- ☐ Tanks S02/T01
- ☐ Surface Impoundments S04/T02
- ☐ Incineration/Thermal Treatment

- ☐ Waste Piles S03
- ☐ Land Treatment D01
- ☒ Landfills D00
- ☐ Chemical/Physical/Biological T04
- ☒ Groundwater Monitoring
- ☐ Post-Closure

# RCRA INTERIM STATUS INSPECTION FORM

1. Has the facility submitted a Part A to Ohio?
  2. If "yes", is it complete and accurate?
  3. Has the facility submitted a Part B?
  4. Was advance notice of the inspection given? If so, how far in advance?
- IF THE SITE HAS RECEIVED A PART B PERMIT, USE THE RCRA STATUS INSPECTION FORM.

Yes	No	N/A	Remark #
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	# 1
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	~ 2 WKS

## REMARKS, GENERAL INFORMATION

Include a brief description of site activity and waste handling.

REMARK # 1 - PART A SUBMITTED TO US EPA AND DEPA. WITHDRAWN BY USEPA EFFECTIVE 19 APRIL 1983. ON 19 NOV. 1984, DEPA INSPECTED THIS FACILITY TO VERIFY REQUEST FOR WITHDRAWAL OF PART A. PART A WITHDRAW LETTER SUBMITTED BY ASF TO DEPA ON 16 JULY 1981.

SITE DESCRIPTION - THIS DISPOSAL SITE IS OWNED BY ASF AND WAS FORMERLY A COAL STRIP MINE LATER MINED FOR CLAY. ASF HAS OPERATED THIS 12.5 ACRE SITE FOR DISPOSAL OF FOUNDRY SAND, SLAG, SLUDGE AND EAF

INFORMATION - 2 EMISSION CONTROL DUST. Revised 12/84

# RCRA INTERIM STATUS INSPECTION FORM

## 40 CFR 265 (OAC 3745-65-et seq.) GENERAL INTERIM STATUS REQUIREMENTS AND TSD REQUIREMENTS

Yes No N/A Remark #

### Subpart B: General Facility Standards

1. The operator has a detailed chemical and physical analysis of the waste material containing all of the information which must be known to properly treat or store the waste as required by Section 265.13(a) [3745-65-13(A)(1)]

☒ ☐ ☐ ☐

2. The operator has a written waste analysis plan which describes analytical parameters, test methods, sampling methods, testing frequency and responses to any process changes that may affect the character of the waste. (Section 265.13(b)) [3745-65-13(B)]

☐ ☒ ☐ # 1

3. a) Would physical contact with the waste structures or equipment injure unknowing/unauthorized persons or livestock entering the facility? (265.14(a)(1)) [3745-65-14(A)(1)]

☒ ☐ ☐ ☐

b) Would disturbance of the waste cause a violation of the hazardous waste regulations? (265.14(a)(2)) [3745-65-14(A)(2)]

☒ ☐ ☐ ☐

IF BOTH 3a AND 3b ARE "NO", MARK QUESTIONS 4 AND 5 "NOT APPLICABLE".

4. The facility has -

a) A 24-hour surveillance system, or

☐ ☒ ☐ ☐

b) An artificial or natural barrier and a means to control entry at all times (265.14(b)(2)). [3745-65-14(B)(2)(a and b)]

☐ ☒ ☐ # 2

5. The facility has a sign "Danger-Unauthorized Personnel Keep Out" at each entrance to the active portion of the facility and at other locations as necessary. (265-14(c)) [3745-65-14(C)]

☐ ☒ ☐ ☐

REMARKS - # 1 NO WASTE ANALYSIS PLAN DEVELOPED

# 2 ACCESSIBLE FROM WEST, SOUTH, SOUTHEAST VIA

GENERAL FACILITY STANDARDS - 1 HEACOCK RD.

Revised 12/84

# RCRA INTERIM STATUS INSPECTION FORM

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
6. a) The operator has developed and followed a comprehensive, written inspection plan and documented the inspections, malfunctions and any remedial actions taken in an operating record log which is kept for at least three years. (265.15) [3745-65-15]	—	✓	—	# 3
b) Areas subject to spills (i.e., loading and unloading areas, container storage areas, etc.) are inspected daily when in use and according to other applicable regulations when not actively in use. (265.15(b)(4)) [3745-65-15(B)(4)]	—	✓	—	—
7. The facility has provided a Personnel Training Program in compliance with Section 265.16(a)(b)(c) including instruction in safe equipment operation and emergency response procedures, training new employees within 6 months and providing an annual training program refresher course. [3745-65-16(A)(B)(C)]	—	✓	—	# 4
8. The facility keeps all records required by Section 265.16(d)(e) including written job titles, job descriptions and documented employee training records. [3745-65-16(D)(E)]	—	✓	—	# 4
9. If required due to the actual hazards associated with Ignitable, Reactive or incompatible waste materials, the facility meets the following requirements: (Section 265.17) [3745-65-17]				
a) Protection from sources of ignition.	—	—	✓	—
b) Physical separation of incompatible waste materials.	—	—	✓	—
c) "No Smoking" or "No Open Flames" signs near areas where Ignitable or Reactive wastes are handled.	—	—	✓	—
d) Any comingling of waste materials is done in a controlled, safe manner as prescribed by Section 265.17(b). [3745-65-17(B)]	—	—	✓	—

REMARKS - #3 NO INSPECTION PLAN DEVELOPED

#4 NO PERSONNEL TRAINING SPECIFIC TO HAZARDOUS

WASTE MANAGEMENT

# RCRA INTERIM STATUS INSPECTION FORM

Yes    No    N/A    Remark #

## Subpart C: Preparedness and Prevention

- |  |   |   |   |     |
|--|---|---|---|-----|
| 1. Has there been a fire, explosion or non-planned release of hazardous waste at this facility? (265.31) [3745-65-31]  | — | ✓ | — | —   |
| 2. If required due to actual hazards associated with the waste material, the facility has the following equipment: (265.32) [3745-65-32(A)(B)(C)(D)]   |   |   |   |     |
| a) Internal alarm system.  | — | — | ✓ | —   |
| b) Access to telephone, radio or other device for summoning emergency assistance.  | — | ✓ | — | # 1 |
| c) Portable fire control equipment.  | — | — | ✓ | —   |
| d) Water of adequate volume and pressure via hoses sprinkler, foamers or sprayers.   | — | — | ✓ | —   |
| 3. All required safety, fire and communications equipment is tested and maintained as necessary; testing and maintenance are documented. (265.33) [3745-65-33]   | — | ✓ | — | # 1 |
| 4. If required due to the actual hazards associated with the waste material, personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled. (265.34) [3745-65-34]   | ✓ | — | — | # 2 |
| 5. If required due to the actual hazards associated with the waste material, adequate aisle space to allow unobstructed movement or emergency or spill control equipment is maintained. (265.35) [3745-65-35]  | — | — | ✓ | —   |
| 6. If required due to the actual hazards associated with the waste material, the facility has attempted to make appropriate arrangements with local emergency service authorities to familiarize them with the possible hazards and the facility layout. (265.37(a)) [3745-65-37(A)] | — | — | ✓ | # 3 |
| 7. Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements the refusal has been documented. (265.37(b)) [3745-65-37(B)]   | — | — | ✓ | —   |

REMARKS - # 1 REQUIRES COMMUNICATION DEVICE BE IMMEDIATELY AVAILABLE AT THE SCENE OF OPERATIONS. NO PHONE WAS AVAILABLE  
 PREPAREDNESS AND PREVENTION - 1 DURING OUR INSPECTION.

Revised 12/84

# 2 TRUCKS EQUIPPED WITH RADIOS

# 3 MATERIAL IS NOT IGNITABLE OR REACTIVE

# RCRA INTERIM STATUS INSPECTION FORM

Yes   No   N/A   Remark #

## Subpart D: Contingency and Emergency

1. The facility has a written Contingency Plan designed to minimize hazards from fire, explosions or unplanned releases of hazardous wastes (265.51) [3745-65-52(A)(B)(C)(D)(E)] and contains the following components:
  - a) Actions to be taken by personnel in the event of an emergency incident. — ✓ — # 1
  - b) Arrangements or agreements with local or state emergency authorities. — ✓ — # 1
  - c) Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator. — ✓ — # 1
  - d) A list of all emergency equipment including location, physical description and outline of capabilities. — ✓ — # 1
  - e) If required due to the actual hazards associated with the waste(s) handled, an evacuation plan for facility personnel. (265.51(f)) [3745-65-52(F)] — ✓ — # 1
2. A copy of the Contingency Plan and any plan revisions is maintained on-site and has been submitted to all local and state emergency service authorities that might be required to participate in the execution of the plan. (265.53) [3745-65-53(A)(B)] — ✓ — # 1
3. The plan is revised in response to facility, equipment and personnel changes or failure of the plan. (265.54) [3745-65-54] — ✓ — # 1
4. An emergency coordinator is designated at all times (on-site or on-call) is familiar with all aspects of site operation and emergency procedures and has the authority to implement all aspects of the Contingency Plan. (265.56) [3745-65-55] — ✓ — # 2
5. If an emergency situation has occurred, the emergency coordinator has implemented all or part of the Contingency Plan and has taken all of the actions and made all of the notifications deemed necessary under Sections 265.56(a-j). [3745-65-56(A-j)] — ✓ — # 1, # 2

REMARKS - # 1 NO CONTINGENCY PLAN HAS BEEN DEVELOPED  
# 2 NO DESIGNATED EMERGENCY COORDINATOR

# RCRA INTERIM STATUS INSPECTION FORM

Yes   No   N/A   Remark #

## Subpart E: Manifests/Records/Reporting

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH ON-SITE AND OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

1. The operator maintains a written operating record at his facility as required by Section 265.73 [3745-65-73(A)] which contains the following information:
  - a) Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date(s) and method(s) pertinent to such treatment, storage or disposal. (265.73(b)(1)) [3745-65-73(B)(1)]
  - b) Common name, EPA Hazardous Waste Identification Number and physical state (liquid, solid, gas) of the waste(s).
  - c) The estimated (or actual) weight, volume or density of the waste material(s).
  - d) A description of the method(s) used to treat, store or dispose of the waste(s) using the EPA Handling Codes listed in 45 FR 33252 (May 19, 1980).
  - e) The present physical location of each hazardous waste within the facility.
  - f) FOR DISPOSAL FACILITIES, the location and quantity of each hazardous waste recorded on a map of the facility and cross-references to any pertinent manifest document number(s). (265.73(b)(2)) [3745-65-73(B)(2)]
  - g) Records of any waste analyses and trial tests required to be performed.
  - h) Records of the inspections required under Section 265.15 [3745.65.14] (General Inspection Requirements - Subpart B).
  - i) Records of any monitoring, testing or analytical data required under other Subparts as referenced by Section 265.73(b)(6). [3745-65-73(B)(6)]
  - j) Records of Closure cost estimates and Post-Closure (DISPOSAL ONLY) cost estimates required under Subpart G.

—	✓	—	# /
—	✓	—	—
—	✓	—	—
—	✓	—	—
—	✓	—	—
—	✓	—	—
—	✓	—	—
—	✓	—	—
—	✓	—	—

# RCRA INTERIM STATUS INSPECTION FORM

	Yes	No	N/A	Remark #
2. The operators has submitted an annual Treatment-Storage-Disposal Operating Report (by March 1) containing all of the operating information required under Section 265.75. [3745-65-75]		✓		# 2

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO ONLY OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

3. Manifests received by the facility are signed and dated; one copy is given to the transporter, one copy is sent to the generator within 30 days and one copy is kept for at least 3 years. (265.71) [3745-65-71(A)]		✓		# 3
a) If shipping papers are used in lieu of manifests (bulk shipments, etc.) the same requirements are met. (265.71(b)) [3745-65-71(B)]		✓		# 3
b) Any significant discrepancies in the manifest, as defined in Section 265.72(a) [3745-65-72(A)] are noted in writing on the manifest document. (265.71(a)(2)) [3745-65-71(A)(2)]		✓		# 3
4. Any manifest discrepancies have been reconciled within 15 days as required by Section 265.72(b) <u>or</u> the operator has submitted the required information to the Regional Administrator/Director. [3745-65-72(B)]		✓		# 3
5. If the facility has accepted any unmanifested hazardous wastes from off-site sources (except from small quantity generators) for treatment, storage, or disposal an unmanifested waste report containing all the information required by Section 265.76 has been submitted to the Regional Administrator/Director within 15 days. [3745-65-76(A)]		✓		# 3

REMARKS - #1 FACILITY DOES NOT HAVE A WRITTEN OPERATING RECORD.  
 #2 ANNUAL REPORTS HAVE NOT BEEN SUBMITTED.  
 #3 MANIFESTS ARE NOT USED



# RCRA INTERIM STATUS INSPECTION FORM

## SUBPART F: GROUND WATER MONITORING

Type of facility: (check appropriately)

- a) surface impoundment
- b) landfill
- c) land treatment facility

Yes      No      Unknown      Waived

                            
                            
                          

NOTE: UNDER INTERIM STATUS STANDARDS A WASTE PILE IS NOT SUBJECT TO GROUND WATER MONITORING REQUIREMENTS. PLEASE NOTE, HOWEVER, THAT IF ANY HAZARDOUS WASTE FROM A WASTE PILE IS LEFT IN PLACE AT CLOSURE, THE "WASTE PILE" BECOMES A "LANDFILL" AND MUST MEET POST-CLOSURE RULES APPLICABLE TO LANDFILLS.

### Ground Water Monitoring Program

1. Was the ground water monitoring program reviewed prior to site visit?  
 If "No",

                # 1

a) Was the ground water program reviewed at the facility prior to site inspection?

                # 1

2. Has a ground water monitoring program (capable of determining the facility's impact on the quality of ground water in the uppermost aquifer underlying the facility) been implemented?  
 265.90(a) [3745-65-90(A)]

                # 1        

3. Has at least one monitoring well been installed in the uppermost aquifer hydraulically upgradient from the limit of the waste management area? 265.91(a)(1) [3745-65-91(A)(1)]

                N/A      # 2

a) Are ground water samples from the uppermost aquifer, representative of background ground water quality and not affected by the facility (as ensured by proper well number, location and depths)?

                N/A      # 2

	<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Waived</u>
4. Have at least three monitoring wells been installed hydraulically downgradient at the limit of the waste handling or management area? 265.91(a)(2) [3745-65-91(A)(2)]	—	—	N/A	AZ
a) Do well number, locations and depths ensure prompt detection of any statistically significant amounts of hazardous waste or hazardous waste constituents that migrate from the waste management area to the uppermost aquifer?	—	—		
5. Have the locations of the waste management areas been verified to conform with information in the ground water program?	—	—	—	
a) If the facility contains multiple waste management components, is each component adequately monitored?	—	—		
6. Do the numbers, locations, and depths of the ground water monitoring wells agree with the data in the ground water monitoring system program? If "No", explain discrepancies.	—	—	—	
7. Well completion details. 265.91(c) [3745-65-91(C)]				
a) Are wells properly cased?	—	—	—	
b) Are wells screened (perforated) and packed where necessary to enable sampling at appropriate depths?	—	—	—	
c) Are annular spaces properly sealed to prevent contamination of ground water?	—	—	—	

	<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Waived</u>
8. Has a ground water sampling and analysis plan been developed? 265.92(a) [3745-65-92(A)]	—	—	N/A	# 2
a) Has it been followed?	—	—	—	—
b) Is the plan kept at the facility?	—	—	—	—
c) Does the plan include procedures and techniques for:				
1) Sample collection?	—	—	—	—
2) Sample preservation?	—	—	—	—
3) Sample shipment?	—	—	—	—
4) Analytical procedures?	—	—	—	—
5) Chain of custody control?	—	—	—	—
9. Are the required parameters in ground water samples being tested quarterly for the first year? 265.92(b) [3745-65-92(B)] and 265.92(c)(1) [3745-65-92(C)]	—	—	—	—
a) Are the ground water samples analyzed for the following:				
1) Parameters characterizing the suitability of the ground water as a drinking water supply? 265.92(b)(1) [3745-65-92(B)(1)]	—	—	—	—
2) Parameters establishing ground water quality? 265.92(b)(2) [3745-65-92(B)(2)]	—	—	—	—
3) Parameters used as indicators of ground water contamination? 265.92(b)(2) [3745-65-92(B)(3)]	—	—	—	—
(1) For each indicator parameter are at least four replicate measurements obtained at each upgradient well for each sample obtained during the first year of monitoring? 265.92(c)(2) [3745-65-92(C)(2)]	—	—	↓	↓

	Yes	No	Unknown	Waived
(11) Are provisions made to calculate the initial background arithmetic mean and variance of the respective parameter concentrations or values obtained from the upgradient well(s) during the first year? 265.92(c)(2) [3745-65-92(C)(2)]	—	—	~ / A	# 2
b) For facilities which have completed first year ground water sampling and analysis requirements:				
1) Have samples been obtained and analyzed for the ground water quality parameters at least annually? 265.92(d)(1) [3745-65-92(D)(1)]	—	—		
2) Have samples been obtained and analyzed for the indicators of ground water contamination at least semi-annually? (4 replicate measurements per sample) 265.92(d)(2) [3745-65-92(D)(2)]	—	—		
c) Were ground water surface elevations determined at each monitoring well each time a sample was taken? 265.92(e) [3745-65-92(E)]	—	—		
d) Were ground water surface elevations evaluated annually to determine whether the monitoring wells are properly placed? 265.92(f) [3745-65-92(E)]	—	—		
e) If it was determined that modification of the number, location or depth of monitoring wells was necessary, was the system brought into compliance with 265.91(a) [3745-65-91(A)]? 265.93(f) [3745-65-93(F)]	—	—		
10. Has an outline of a ground water quality assessment program been prepared? 265.93(a) [3745-65-93(A)]	—	—		
a) Does it describe a program capable of determining:				
1) Whether hazardous waste or hazardous waste constituents have entered the ground water?	—	—		
2) The rate and extent of migration of hazardous waste or hazardous waste constituents in ground water?	—	—		
3) Concentrations of hazardous waste or hazardous waste constituents in ground water?	—	—		

	Yes	No	Unknown	Waived
b) After the first year of monitoring, have at least four replicate measurements of each indicator parameter been obtained for samples taken for each well? 265.93(b) [3745-65-93(B)]	—	—	N/A	# 2
1) Were the results compared with the initial background means from the upgradient well(s) determined during the first year?	—	—		
(1) Was each well considered individually?	—	—		
(11) Was the Student's t-test used (at the 0.01 level of significance?)	—	—		
2) Was a significant increase (or pH decrease as well) found in the:				
(1) Upgradient wells (If "Yes", Compliance Checklist A-2 must also be completed.) [3745-65-93(C)(1)]	—	—		
(11) Downgradient wells	—	—		
If "Yes", owner or operator must obtain, split, and analyze additional samples from the wells where a significant difference was detected. If the difference is confirmed, the Director should be notified in writing within 7 days and a ground water assessment plan within 15 days. [3735-65-93(C)(2) and (D)(2)(3)]				
11. Have records been kept of analyses for parameters in 265.92(c) and (d) [3745-65-92(C) and (D)]? 265.94(a)(1) [3745-65-94(A)(1)]	—	—		
12. Have records been kept of ground water surface elevations taken at the time of sampling for each well? 265.94(a)(1) [3745-65-94(A)(1)]	—	—		
13. Have records been kept of required elevations in 265.93(b) [3745-65-93(B)]? 265.94(a)(1) [3745-65-94(A)(1)]	—	—		
14. Have the following been submitted to the Director of the Ohio EPA: 265.94(a)(2) [3745-65-94(A)(2)]				
a) Initial background concentrations of parameters listed in 265.92(b) [3745-65-92(B)] within 15 days after completing each quarterly analysis required during the first year?	—	—	✓	✓

	<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Waived</u>
b) For each well, have any parameters whose concentrations or values have exceeded the maximum contaminant levels allowed in drinking water supplied been separately identified?	—	—	N/A	#2
c) Annual reports including: [3745-65-94(A)(2)]				
1) Concentrations or values of parameters used as indicators of ground water contamination for each well along with required evaluations under 265.93(b) [3745-65-93(B)]?	—	—		
2) Any significant differences from initial background values in upgradient wells separately identified?	—	—		
3) Results of the evaluation of ground water surface elevations?	—	—		

Comments: Subpart F

REMARKS - #1 APPLICATION OF SUBPART F REQUIRES DEVELOPMENT OF A GROUND WATER MONITORING PROGRAM WHICH INCLUDES A SAMPLING AND ANALYSIS PLAN, PROGRAM EVALUATION AND REPORTING REQUIREMENTS THROUGHOUT THE ACTIVE LIFE OF THE FACILITY

#2 BECAUSE THE ENVIRONMENTAL ASSESSMENT DOES NOT FULFILL THE REGULATORY REQUIREMENTS OF SUBPART F, THESE ITEMS WERE 'NOT APPLICABLE' TO THIS EVALUATION.

# RCRA INTERIM STATUS INSPECTION FORM

Yes   No   N/A   Remark #

## Subpart G: Closure and Post-Closure

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH DISPOSAL AND NON-DISPOSAL FACILITIES.

- |   |   |   |   |      |
|---|---|---|---|------|
| 1. A written Closure Plan is on file at the facility and contains the following elements: (Section 265.112) [3745-66-12]  | — | ✓ | — | ## 1 |
| a) A description of how and when the facility will be closed.<br>(265.112(a)(1)) [3745-66-12(A)(1)]   | — | ✓ | — | —    |
| b) A description of how any of the <u>applicable</u> closure requirements in other Subparts of Section 265 [3745-66] (Tanks, Surface Impoundments, Landfill, etc.) will be carried out. | — | ✓ | — | —    |
| c) An estimate of the maximum amount of hazardous wastes being treated or in storage at the facility. (NOTE: Maximum inventory should agree with the permit.)                           | — | ✓ | — | —    |
| d) A description of steps taken to decontaminate facility equipment.  | — | ✓ | — | —    |
| e) The year closure is expected to begin and a schedule for the various phases of closure.  | — | ✓ | — | —    |
| 2. The Closure Plan has been amended within 60 days in response to any changes in facility design, processes or closure dates. (265.112(4)(B)) [3745-66-12(B)]                          | — | ✓ | — | —    |
| 3. The Closure Plan has been submitted to the Regional Administrator/Director 180 days prior to beginning the Closure process. (265.112(4)(C)) [3745-66-12(C)]                          | — | ✓ | — | —    |

REMARKS - #1 - NO CLOSURE PLAN HAS BEEN DEVELOPED.

# RCRA INTERIM STATUS INSPECTION FORM

Yes    No    N/A    Remark #

## Subpart H: Financial Requirements

1. The owner or operator of the facility has established financial assurance for closure by use of one of the following: (265.143) [3745-66-43]

a) A closure trust fund, or

b) A surety bond, or

c) A closure letter of credit, or

d) A combination of financial mechanisms.

2. A written cost estimate for closure of the facility (as specified in the closure plan) is available. How much is it?

3. When was the most recent estimate made?

4. A written cost estimate for post closure care of the facility (if applicable) is available. How much is it?

5. When was the most recent estimate made?

—	✓	—	# 1
—	✓	—	# 1
—	✓	—	# 1
—	✓	—	# 1
—	✓	—	# 1
—	✓	—	# 1
—	✓	—	# 1
—	✓	—	# 1

## REMARKS, GENERAL INTERIM STATUS REQUIREMENTS

REMARKS - #1, NO FINANCIAL ASSURANCE HAS BEEN ESTABLISHED.

NOTE: THIS FORM DOES NOT INCLUDE LIABILITY REQUIREMENTS OF 40 CFR 265.147 AND DAC 3745-66-47.



# RCRA INTERIM STATUS INSPECTION FORM

Yes    No    N/A    Remark #

## Subpart N: Landfills

1. General Operating Requirements. Does the facility provide the following:

NOTE: 1a, 1b AND 1c ARE EFFECTIVE ON NOVEMBER 19, 1981.

- |   |   |   |   |     |
|---|---|---|---|-----|
| a) Diversion of run-on away from active portions of the fill?<br>(265.302(a)) [3745-68-02(A)] | — | ✓ | — | # 1 |
| b) Collection of run-off from active portions of the fill?<br>(265.302(b)) [3745-68-02(B)]    | — | ✓ | — | # 1 |
| c) Is collected run-off treated? [3745-68-02(B)]  | — | ✓ | — | # 1 |
| d) Control of wind dispersal of hazardous waste? (265.302(d)) [3745-68-02(D)]                 | — | ✓ | — | # 1 |

2. Surveying and Recordkeeping. Does the operating record include: [3745-68-09]

- |   |   |   |   |     |
|---|---|---|---|-----|
| a) a map showing the exact location and dimensions of each cell?<br>(269.309(a)) [3745-68-09(A)]                          | — | ✓ | — | # 1 |
| b) The contents of each cell and the location of each hazardous waste type within each cell? (269.309(b)) [3745-68-09(B)] | — | ✓ | — | # 1 |

3. Closure and Post-Closure

- |  |   |   |   |     |
|--|---|---|---|-----|
| a) Is the closure Plan available for inspection?               | — | ✓ | — | # 2 |
| b) Has this plan been submitted to the Regional Administrator? | — | ✓ | — | # 2 |
| c) Has Closure begun?  | — | ✓ | — | # 2 |
| d) Is Closure cost estimate available by?                      | — | ✓ | — | # 2 |

REMARKS - #1 OPERATING REQUIREMENTS INCLUDE SPECIFIC DESIGN, CONSTRUCTION, OPERATION AND MAINTENANCE CRITERIA FOR RUN-OFF AND RUN-ON CONTROL AND WIND DISPERSAL

LANDFILLS - 1

- #2 - NO CLOSURE PLANS DEVELOPED
- #3 - A DRUM WAS OBSERVED IN WASTE MATERIAL

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# RCRA INTERIM STATUS INSPECTION FORM

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
4. Special requirements for ignitable or reactive waste. (265.312(a)(B))				
a) Are ignitable or reactive waste treated so the resulting mixture is no longer ignitable or reactive?	—	—	✓	—
<u>NOTE:</u> IF WASTE IS RENDERED NON-REACTIVE OR NON-IGNITABLE, SEE TREATMENT REQUIREMENTS. IF NOT, THE PROVISIONS OF 40 CFR 265.17(b) APPLY. [3745-65-17]				
5. Special requirements for Incompatible Wastes.				
a) Does the owner or operator dispose of incompatible wastes in separate cells? If not, the provisions of 40 CFR 265.17(b) apply. [3745-65-17]	—	—	✓	—
6. Special requirements for Containers:				
Are empty containers crushed flat, shredded, or similarly reduced in volume before being buried beneath the surface of the landfill? (265.315) [3745-57-85]	—	✓	—	# 3
7. Special requirements for Liquid Waste.				
Bulk or non-containerized liquid waste or waste containing free liquids is placed in a landfill having a liner and leachate collection and removal system meeting 264.301(a) requirements or is treated so that free liquids are no longer present. (265.314(a)) [3745-68-14(A)]	—	✓	—	—
8. A written Post-Closure Plan is on file at the facility.	—	✓	—	# 2
9. The Post-Closure Plan has been amended within 60 days in response to any changes in facility design or operation. (265.118(b))	—	✓	—	# 2
10. The Post-Closure Plan has been submitted to the Regional Administrator/Director 180 days prior to beginning Closure. (265.118(c))	—	✓	—	# 2
11. The property owner has attached a notation to the property deed or other instrument which will notify any potential purchaser that the property has been used to manage hazardous waste and future use of the property is restricted under Section 265.117(c) [3745-66-17(C)] as required in Section 265.120 [3745-66-10].	—	✓	—	—

4-26-84 2:00-5:30 PM  
Date and Time of Inspection

RCRA INTERIM STATUS INSPECTION FORM

HWFAB # \_\_\_\_\_

GENERAL INFORMATION

U.S. EPA I.D. # OH D 017-497-587

Facility: AMERICAN STEEL FOUNDRIES Address: LAKE PARK BLVD AT HEACOCK City: SEBRING TWP  
State: OHIO Zip Code: \_\_\_\_\_ County: MAHONING Telephone: NO TELEPHONE

INSPECTION PARTICIPANT(S)

	(Name)	(Title)	(Telephone)
1.	<u>CHARLES A. DIXON</u>	<u>WORKS MANAGER</u>	<u>216 - 823 - 6150</u>
2.	<u>JOHN A. DIFLOURE</u>	<u>ASS'T WORKS MANAGER</u>	<u>216 - 823 - 6150</u>
3.	<u>-</u>	<u>-</u>	<u>-</u>

INSPECTOR(S)

1.	<u>CATHERINE MCCORD</u>	<u>OHIO EPA - NE DISTRICT ENVIRONMENTAL ENG.</u>	<u>216 425 - 9171</u>
2.	<u>WILLIAM SKOWRONSKI</u>	<u>OHIO EPA NE DISTRICT</u>	<u>216 425 - 9171</u>
3.	<u>-</u>	<u>-</u>	<u>-</u>

INSTALLATION ACTIVITY

Mark One

If the site is a TSDF, check the boxes indicating which areas were reviewed.

☐ Generator only (G)

☐ Transporter (T)

☒ TSDF only

☐ G-T

☐ G-TSDF

☐ T-TSDF

☐ G-T-TSDF

☒ General Facility Standards, Preparedness  
and Prevention, Contingency and Emergency  
Manifests/Records/Reporting, Closure

☐ Containers S01

☐ Tanks S02/T01

☐ Surface Impoundments S04/T02

☐ Incineration/Thermal Treatment

☐ Waste Piles S03

☐ Land Treatment D01

☒ Landfills D80

☐ Chemical/Physical/  
Biological T04

☒ Groundwater Monitoring

☒ Post-Closure

RCRA INTERIM STATUS INSPECTION FORM

- |   | <u>Yes</u> | <u>No</u> | <u>N/A</u> | <u>Remark #</u> |
|---|------------|-----------|------------|-----------------|
| 1. Has the facility submitted a Part A to Ohio?                           | —          | <u>X</u>  | —          | <u>#1</u>       |
| 2. If "yes", is it complete and accurate?                                 | —          | —         | <u>X</u>   | —               |
| 3. Has the facility submitted a Part B?                                   | —          | <u>X</u>  | —          | —               |
| 4. Was advance notice of the inspection given? If so, how far in advance? | <u>X</u>   | —         | —          | <u>10 days.</u> |

IF THE SITE HAS RECEIVED A PART B PERMIT, USE THE RCRA STATUS INSPECTION FORM.

REMARKS, GENERAL INFORMATION

Include a brief description of site activity and waste handling.

#1 PART A SUBMITTED TO U.S. EPA FOR DISPOSAL FACILITY, WITHDRAWN  
BY COMPANY ON

THIS IS A DISPOSAL SITE OWNED BY AMERICAN  
STEEL FOUNDRIES. THIS SITE IS A FORMER COAL  
STRIP MINE CUT AND LATER CLAY MINE WHICH  
IS BEING FILLED WITH THE COMPANY'S INDUSTRIAL  
WASTE, SOME HAZARDOUS AND SOME NONHAZARDOUS.  
THIS SITE DOES NOT HAVE A SOLID WASTE LICENSE  
FOR DISPOSAL.

RCRA INTERIM STATUS INSPECTION FORM

40 CFR 265 (OAC 3745-65-et seq.) GENERAL INTERIM STATUS REQUIREMENTS AND TSD REQUIREMENTS

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
<u>Subpart B: General Facility Standards</u>				
1. The operator has a detailed chemical and physical analysis of the waste material containing all of the information which must be known to properly treat or store the waste as required by Section 265.13(a) [3745-65-13(A)(1)]	—	<u>X</u>	—	<u>#1</u>
2. The operator has a written waste analysis plan which describes analytical parameters, test methods, sampling methods, testing frequency and responses to any process changes that may affect the character of the waste. (Section 265.13(b)) [3745-65-13(B)]	—	<u>X</u>	—	<u>#2</u>
3. a) Would physical contact with the waste structures or equipment injure unknowing/unauthorized persons or livestock entering the facility? (265.14(a)(1)) [3745-65-14(A)(1)]	—	—	—	<u>UNKNOWN</u>
b) Would disturbance of the waste cause a violation of the hazardous waste regulations? (265.14(a)(2)) [3745-65-14(A)(2)]	—	—	—	<u>UNKNOWN</u>
IF <u>BOTH</u> 3a AND 3b ARE "NO", MARK QUESTIONS 4 AND 5 "NOT APPLICABLE".				
4. The facility has -				
a) A 24-hour surveillance system, <u>or</u>	—	<u>X</u>	—	—
b) An artificial or natural barrier <u>and</u> a means to control entry at all times (265.14(b)(2)). [3745-65-14(B)(2)(a and b)]	—	<u>X</u>	—	—
5. The facility has a sign "Danger-Unauthorized Personnel Keep Out" at each entrance to the active portion of the facility and at other locations as necessary. (265-14(c)) [3745-65-14(C)]	—	<u>X</u>	—	<u>#3</u>

#1 ONLY MINIMAL TESTING HAS BEEN COMPLETED. DURING THE MOST RECENT ROUND OF SAMPLING, SAMPLES WERE SPLIT WITH OHIO EPA. AT LEAST ONE WASTE STREAM IS HAZARDOUS. THE COMPANY DID NOT FOLLOW THE CORRECT ANALYTICAL PROCEDURES FOR THEIR EP TOXICITY ANALYSIS.

#2 NO WASTE ANALYSIS PLAN

#3 SOME FENCING, INCORRECT SIGNS, BARRIERS ARE INADEQUATE.

RCRA INTERIM STATUS INSPECTION FORM

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
6. a) The operator has developed and followed a comprehensive, written inspection plan and documented the inspections, malfunctions and any remedial actions taken in an operating record log which is kept for at least three years. (265.15) [3745-65-15]	—	<u>X</u>	—	<u>#4</u>
b) Areas subject to spills (i.e., loading and unloading areas, container storage areas, etc.) are inspected daily when in use and according to other applicable regulations when not actively in use. (265.15(b)(4)) [3745-65-15(B)(4)]	—	<u>X</u>	—	<u>#4</u>
7. The facility has provided a Personnel Training Program in compliance with Section 265.16(a)(b)(c) including instruction in safe equipment operation and emergency response procedures, training new employees within 6 months and providing an annual training program refresher course. [3745-65-16(A)(B)(C)]	—	<u>X</u>	—	<u>#5</u>
8. The facility keeps all records required by Section 265.16(d)(e) including written job titles, job descriptions and documented employee training records. [3745-65-16(D)(E)]	—	<u>X</u>	—	<u>#6</u>
9. If required due to the actual hazards associated with Ignitable, Reactive or incompatible waste materials, the facility meets the following requirements: (Section 265.17) [3745-65-17]				
a) Protection from sources of ignition.	—	—	<u>X</u>	—
b) Physical separation of incompatible waste materials.	—	—	<u>X</u>	—
c) "No Smoking" or "No Open Flames" signs near areas where Ignitable or Reactive wastes are handled.	—	—	<u>X</u>	—
d) Any comingling of waste materials is done in a controlled, safe manner as prescribed by Section 265.17(b). [3745-65-17(B)]	—	—	<u>X</u>	—

#4 NO INSPECTION PLAN, NO INSPECTIONS

#5 NO PERSONNEL TRAINING RELATED TO HAZARDOUS WASTES AND APPROPRIATE SAFETY PROCEDURES

#6 THESE RECORDS RELATED TO HAZARDOUS WASTES ARE NOT MAINTAINED

# RCRA INTERIM STATUS INSPECTION FORM

Yes    No    N/A    Remark #

## Subpart C: Preparedness and Prevention

1. Has there been a fire, explosion or non-planned release of hazardous waste at this facility? (265.31) [3745-65-31] —      X      —    UNKNOWN
2. If required due to actual hazards associated with the waste material, the facility has the following equipment: (265.32) [3745-65-32(A)(B)(C)(D)]
  - a) Internal alarm system. —      X      —    #7
  - b) Access to telephone, radio or other device for summoning emergency assistance. —      X      —    #7
  - c) Portable fire control equipment. —      X      —    #7
  - d) Water of adequate volume and pressure via hoses sprinkler, foamers or sprayers. —      X      —    #7
3. All required safety, fire and communications equipment is tested and maintained as necessary; testing and maintenance are documented. (265.33) [3745-65-33] —      X      —    #7
4. If required due to the actual hazards associated with the waste material, personnel have immediate access to an emergency communication device during times when hazardous waste is being physically handled. (265.34) [3745-65-34]   X      —    —    TRUCKS HAVE RADIOS
5. If required due to the actual hazards associated with the waste material, adequate aisle space to allow unobstructed movement of emergency or spill control equipment is maintained. (265.35) [3745-65-35] —    —      X      —
6. If required due to the actual hazards associated with the waste material, the facility has attempted to make appropriate arrangements with local emergency service authorities to familiarize them with the possible hazards and the facility layout. (265.37(a)) [3745-65-37(A)] —      X      —    #8
7. Where state or local emergency service authorities have declined to enter into any proposed special arrangements or agreements the refusal has been documented. (265.37(b)) [3745-65-37(B)] —    —      X      —

#7 NO SAFETY OR COMMUNICATIONS AT DISPOSAL SITE OTHER THAN TRUCKS WHICH DUMP WASTE INTO CUT.

#8 NO ARRANGEMENTS HAVE BEEN MADE PREPAREDNESS AND PREVENTION - 1

RCRA INTERIM STATUS INSPECTION FORM

Yes    No    N/A    Remark #

Subpart D: Contingency and Emergency

- |  |   |   |   |     |
|--|---|---|---|-----|
| 1. The facility has a written Contingency Plan designed to minimize hazards from fire, explosions or unplanned releases of hazardous wastes (265.51) [3745-65-52(A)(B)(C)(D)(E)] and contains the following components:                                    |   |   |   |     |
| a) Actions to be taken by personnel in the event of an emergency incident.   | — | X | — | #9  |
| b) Arrangements or agreements with local or state emergency authorities.   | — | X | — | #9  |
| c) Names, addresses and telephone numbers of all persons qualified to act as emergency coordinator.  | — | X | — | #9  |
| d) A list of all emergency equipment including location, physical description and outline of capabilities.   | — | X | — | #9  |
| e) If required due to the actual hazards associated with the waste(s) handled, an evacuation plan for facility personnel. (265.51(f)) [3745-65-52(F)]  | — | X | — | #9  |
| 2. A copy of the Contingency Plan and any plan revisions is maintained on-site and has been submitted to all local and state emergency service authorities that might be required to participate in the execution of the plan. (265.53) [3745-65-53(A)(B)] | — | X | — | #9  |
| 3. The plan is revised in response to facility, equipment and personnel changes or failure of the plan. (265.54) [3745-65-54]  | — | X | — | #9  |
| 4. An emergency coordinator is designated at all times (on-site or on-call) is familiar with all aspects of site operation and emergency procedures and has the authority to implement all aspects of the Contingency Plan. (265.56) [3745-65-55]          | — | X | — | #10 |
| 5. If an emergency situation has occurred, the emergency coordinator has implemented all or part of the Contingency Plan and has taken all of the actions and made all of the notifications deemed necessary under Sections 265.56(a-j). [3745-65-56(A-j)] | — | X | — | #9  |

# 9 NO CONTINGENCY PLAN

# 10 NO DESIGNATED HAZARDOUS WASTE EMERGENCY COORDINATOR



# RCRA INTERIM STATUS INSPECTION FORM

Yes    No    N/A    Remark #

## Subpart E: Manifests/Records/Reporting

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH ON-SITE AND OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

- |  |   |   |          |
|--|---|---|----------|
| 1. The operator maintains a written operating record at his facility as required by Section 265.73 [3745-65-73(A)] which contains the following information:   |   |   |          |
| a) Description and quantity of each hazardous waste treated, stored or disposed of within the facility and the date(s) and method(s) pertinent to such treatment, storage or disposal. (265.73(b)(1)) [3745-65-73(B)(1)]     | — | X | — #11+12 |
| b) Common name, EPA Hazardous Waste Identification Number and physical state (liquid, solid, gas) of the waste(s).   | — | X | — #11+12 |
| c) The estimated (or actual) weight, volume or density of the waste material(s).   | — | X | — #11+12 |
| d) A description of the method(s) used to treat, store or dispose of the waste(s) using the EPA Handling Codes listed in 45 FR 33252 (May 19, 1980).   | — | X | — #11+12 |
| e) The present physical location of each hazardous waste within the facility.  | — | X | — #11+12 |
| f) <u>FOR DISPOSAL FACILITIES</u> , the location and quantity of each hazardous waste recorded on a map of the facility and cross-references to any pertinent manifest document number(s). (265.73(b)(2)) [3745-65-73(B)(2)] | — | X | — #11+12 |
| g) Records of any waste analyses and trial tests required to be performed.   | — | X | — #11+12 |
| h) Records of the inspections required under Section 265.15 [3745.65.14] (General Inspection Requirements - Subpart B).  | — | X | — #11+12 |
| i) Records of any monitoring, testing or analytical data required under other Subparts as referenced by Section 265.73(b)(6). [3745-65-73(B)(6)]   | — | X | — #11+12 |
| j) Records of Closure cost estimates and Post-Closure (DISPOSAL ONLY) cost estimates required under Subpart G.   | — | X | — #11+12 |

#11 FACILITY DOES NOT HAVE AN OPERATING RECORD  
# NO RECORDS RELATED TO HAZARDOUS WASTES ARE KEPT  
MANIFESTS/RECORDS/REPORTING - 1

RCRA INTERIM STATUS INSPECTION FORM

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
2. The operators has submitted an annual Treatment-Storage-Disposal Operating Report (by March 1) containing all of the operating information required under Section 265.75. [3745-65-75]	—	<u>X</u>	—	<u>#13</u>

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO ONLY OFF-SITE TREATMENT, STORAGE AND DISPOSAL FACILITIES.

3. Manifests received by the facility are signed and dated; one copy is given to the transporter, one copy is sent to the generator within 30 days and one copy is kept for at least 3 years. (265.71) [3745-65-71(A)]	—	<u>X</u>	—	<u>#14</u>
a) If shipping papers are used in lieu of manifests (bulk shipments, etc.) the same requirements are met. (265.71(b)) [3745-65-71(B)]	—	<u>X</u>	—	<u>#14</u>
b) Any significant discrepancies in the manifest, as defined in Section 265.72(a) [3745-65-72(A)] are noted in writing on the manifest document. (265.71(a)(2)) [3745-65-71(A)(2)]	—	<u>X</u>	—	<u>#14</u>
4. Any manifest discrepancies have been reconciled within 15 days as required by Section 265.72(b) <u>or</u> the operator has submitted the required information to the Regional Administrator/Director. [3745-65-72(B)]	—	<u>X</u>	—	<u>#14</u>
5. If the facility has accepted any unmanifested hazardous wastes from off-site sources (except from small quantity generators) for treatment, storage, or disposal an unmanifested waste report containing all the information required by Section 265.76 has been submitted to the Regional Administrator/Director within 15 days. [3745-65-76(A)]	—	<u>X</u>	—	<u>#14</u>

#13 REPORTS HAVE NOT BEEN SUBMITTED

#14 NO MANIFESTS OR SHIPPING PAPERS ARE USED

NO EXCEPTION REPORTS SUBMITTED

# RCRA INTERIM STATUS INSPECTION FORM

## SUBPART F: GROUNDWATER MONITORING

Type of facility: (check appropriately)

- a) surface impoundment
- b) landfill
- c) land treatment facility

Yes No Unknown Waived

☒ ☒ ☐ ☐

NOTE: UNDER INTERIM STATUS STANDARDS A WASTE PILE IS NOT SUBJECT TO GROUNDWATER MONITORING REQUIREMENTS. PLEASE NOTE, HOWEVER, THAT IF ANY HAZARDOUS WASTE FROM A WASTE PILE IS LEFT IN PLACE AT CLOSURE, THE "WASTE PILE" BECOMES A "LANDFILL" AND MUST MEET POST-CLOSURE RULES APPLICABLE TO LANDFILLS.

### Groundwater Monitoring Program

1. Was the groundwater monitoring program reviewed prior to site visit?  
If "No",

— ☒ #15

a) Was the groundwater program reviewed at the facility prior to site inspection?

— ☒ #15

2. Has a groundwater monitoring program (capable of determining the facility's impact on the quality of groundwater in the uppermost aquifer underlying the facility) been implemented?  
265.90(a) [3745-65-90(A)]

— ☒ —

3. Has at least one monitoring well been installed in the uppermost aquifer hydraulically upgradient from the limit of the waste management area? 265.91(a)(1) [3745-65-91(A)(1)]

— ☒ —

a) Are groundwater samples from the uppermost aquifer, representative of background groundwater quality and not affected by the facility (as ensured by proper well number, location and depths)?

— ☒

#15 NO GROUNDWATER MONITORING CURRENTLY  
AN IMPACT STUDY IS TO BEGIN IN NEAR FUTURE  
(hydro-geo)

	<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Waived</u>
4. Have at least three monitoring wells been installed hydraulically downgradient at the limit of the waste handling or management area? 265.91(a)(2) [3745-65-91(A)(2)]	—	<u>X</u>		#15
a) Do well number, locations and depths ensure prompt detection of any statistically significant amounts of hazardous waste or hazardous waste constituents that migrate from the waste management area to the uppermost aquifer?	—	<u>X</u>		
5. Have the locations of the waste management areas been verified to conform with information in the groundwater program?	—	<u>X</u>	—	
a) If the facility contains multiple waste management components, is each component adequately monitored?	—	<u>X</u>		
6. Do the numbers, locations, and depths of the groundwater monitoring wells agree with the data in the groundwater monitoring system program? If "No", explain discrepancies.	—	<u>X</u>	—	
7. Well completion details. 265.91(c) [3745-65-91(C)]				
a) Are wells properly cased?	—	<u>X</u>	—	
b) Are wells screened (perforated) and packed where necessary to enable sampling at appropriate depths?	—	<u>X</u>	—	
c) Are annular spaces properly sealed to prevent contamination of groundwater?	—	<u>X</u>	—	

	Yes	No	Unknown	Waived
8. Has a groundwater sampling and analysis plan been developed? 265.92(a) [3745-65-92(A)]	—	X	—	#15
a) Has it been followed?	—	X	—	
b) Is the plan kept at the facility?	—	X	—	
c) Does the plan include procedures and techniques for:				
1) Sample collection?	—	X		
2) Sample preservation?	—	X		
3) Sample shipment?	—	X		
4) Analytical procedures?	—	X		
5) Chain of custody control?	—	X		
9. Are the required parameters in groundwater samples being tested quarterly for the first year? 265.92(b) [3745-65-92(B)] and 265.92(c)(1) [3745-65-92(C)]	—	X		
a) Are the groundwater samples analyzed for the following:				
1) Parameters characterizing the suitability of the groundwater as a drinking water supply? 265.92(b)(1) [3745-65-92(B)(1)]	—	X		
2) Parameters establishing groundwater quality? 265.92(b)(2) [3745-65-92(B)(2)]	—	X		
3) Parameters used as indicators of groundwater contamination? 265.92(b)(2) [3745-65-92(B)(3)]	—	X		
(1) For each indicator parameter are at least four replicate measurements obtained at each upgradient well for each sample obtained during the first year of monitoring? 265.92(c)(2) [3745-65-92(C)(2)]	—	Y		

	<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Waived</u>
(11) Are provisions made to calculate the initial background arithmetic mean and variance of the respective parameter concentrations or values obtained from the upgradient well(s) during the first year? 265.92(c)(2) [3745-65-92(C)(2)]	—	X	# 15	
b) For facilities which have completed first year groundwater sampling and analysis requirements:				
1) Have samples been obtained and analyzed for the groundwater quality parameters at least annually? 265.92(d)(1) [3745-65-92(D)(1)]	—	X		
2) Have samples been obtained and analyzed for the indicators of groundwater contamination at least semi-annually? 265.92(d)(2) [3745-65-92(D)(2)]	—	X		
c) Were groundwater surface elevations determined at each monitoring well each time a sample was taken? 265.92(e) [3745-65-92(E)]	—	X		
d) Were groundwater surface elevations evaluated annually to determine whether the monitoring wells are properly placed? 265.92(f) [3745-65-92(F)]	—	X		
e) If it was determined that modification of the number, location or depth of monitoring wells was necessary, was the system brought into compliance with 265.91(a) [3745-65-91(A)]? 265.93(f) [3745-65-93(F)]	—	X		
10. Has an outline of a groundwater quality assessment program been prepared? 265.93(a) [3745-65-93(A)]	—	X		
a) Does it describe a program capable of determining:				
1) Whether hazardous waste or hazardous waste constituents have entered the groundwater?	—	X		
2) The rate and extent of migration of hazardous waste or hazardous waste constituents in groundwater?	—	X		
3) Concentrations of hazardous waste or hazardous waste constituents in groundwater?	—	X		

	Yes	No	Unknown	Waived
b) After the first year of monitoring, have at least four replicate measurements of each indicator parameter been obtained for samples taken for each well? 265.93(b) [3745-65-93(B)]	—	<del>X</del>	#15	
1) Were the results compared with the initial background means from the upgradient well(s) determined during the first year?	—	<del>X</del>		
(i) Was each well considered individually?	—	<del>X</del>		
(ii) Was the Student's t-test used (at the 0.01 level of significance?)	—	<del>X</del>		
2) Was a significant increase (or pH decrease as well) found in the:				
(i) Upgradient wells (If "Yes", Compliance Checklist A-2 must also be completed.) [3745-65-93(C)(1)]	—	<del>X</del>		
(ii) Downgradient wells	—	<del>X</del>		
11. Have records been kept of analyses for parameters in 265.92(c) and (d) [3745-65-92(C) and (D)]? 265.94(a)(1) [3745-65-94(A)(1)]	—	<del>X</del>		
12. Have records been kept of groundwater surface elevations taken at the time of sampling for each well? 265.94(a)(1) [3745-65-94(A)(1)]	—	<del>X</del>		
If "Yes", owner or operator must obtain, split, and analyze additional samples from the wells where a significant difference was detected. If the difference is confirmed, the Director should be notified in writing within 7 days and a groundwater assessment plan within 15 days. [3735-65-93(C)(2) and (D)(2)(3)]				
13. Have records been kept of required elevations in 265.93(b) [3745-65-93(B)]? 265.94(a)(1) [3745-65-94(A)(1)]	—	<del>X</del>		
14. Have the following been submitted to the Regional Administrator: 265.94(a)(2) [3745-65-94(A)(2)]				
a) Initial background concentrations of parameters listed in 265.92(b) [3745-65-92(B)] within 15 days after completing each quarterly analysis required during the first year?	—	<del>X</del>		

	<u>Yes</u>	<u>No</u>	<u>Unknown</u>	<u>Waived</u>
b) For each well, have any parameters whose concentrations or values have exceeded the maximum contaminant levels allowed in drinking water supplied been separately identified?	—	<u>X</u>	#15	
c) Annual reports including: [3745-65-94(A)(2)]				
1) Concentrations or values of parameters used as indicators of groundwater contamination for each well along with required evaluations under 265.93(b) [3745-65-93(B)]?	—	<u>X</u>		
2) Any significant differences from initial background values in upgradient wells separately identified?	—	<u>X</u>		
3) Results of the evaluation of groundwater surface elevations?	—	<u>X</u>		

Comments: Subpart F



RCRA INTERIM STATUS INSPECTION FORM

Yes   No   N/A   Remark #

Subpart G: Closure and Post-Closure

NOTE: THE FOLLOWING REQUIREMENTS ARE APPLICABLE TO BOTH DISPOSAL AND NON-DISPOSAL FACILITIES.

- |   |   |          |   |            |
|---|---|----------|---|------------|
| 1. A written Closure Plan is on file at the facility and contains the following elements: (Section 265.112) [3745-66-12]  | — | <u>X</u> | — | <u>#16</u> |
| a) A description of how and when the facility will be closed.<br>(265.112(a)(1)) [3745-66-12(A)(1)]   | — | <u>X</u> | — | <u>#16</u> |
| b) A description of how any of the <u>applicable</u> closure requirements in other Subparts of Section 265 [3745-66] (Tanks, Surface Impoundments, Landfill, etc.) will be carried out. | — | <u>X</u> | — | <u>#16</u> |
| c) An estimate of the maximum amount of hazardous wastes being treated or in storage at the facility. (NOTE: Maximum inventory should agree with the permit.)                           | — | <u>X</u> | — | <u>#16</u> |
| d) A description of steps taken to decontaminate facility equipment.  | — | <u>X</u> | — | <u>#16</u> |
| e) The year closure is expected to begin and a schedule for the various phases of closure.  | — | <u>X</u> | — | <u>#16</u> |
| 2. The Closure Plan has been amended within 60 days in response to any changes in facility design, processes or closure dates. (265.112(4)(B)) [3745-66-12(B)]                          | — | <u>X</u> | — | <u>#16</u> |
| 3. The Closure Plan has been submitted to the Regional Administrator/Director 180 days prior to beginning the Closure process. (265.112(4)(C)) [3745-66-12(C)]                          | — | <u>X</u> | — | <u>#16</u> |

#16 NO CLOSURE PLAN HAS BEEN DEVELOPED

RCRA INTERIM STATUS INSPECTION FORM

Yes    No    N/A    Remark #

Subpart H: Financial Requirements

1. The owner or operator of the facility has established financial assurance for closure by use of one of the following: (265.143) [3745-66-43]

a) A closure trust fund, or

—    X    —    #17

b) A surety bond, or

—    X    —    #17

c) A closure letter of credit, or

—    X    —    #17

d) A combination of financial mechanisms.

—    X    —    #17

2. A written cost estimate for closure of the facility (as specified in the closure plan) is available. How much is it?

—    X    —    #17

3. When was the most recent estimate made?

—    X    —    #17

4. A written cost estimate for post closure care of the facility (if applicable) is available. How much is it?

—    X    —    #17

5. When was the most recent estimate made?

—    X    —    #17

REMARKS, GENERAL INTERIM STATUS REQUIREMENTS

#17 NO FINANCIAL ASSURANCE HAS BEEN ESTABLISHED

# RCRA INTERIM STATUS INSPECTION FORM

Yes    No    N/A    Remark #

## Subpart N: Landfills

1. General Operating Requirements. Does the facility provide the following:

NOTE: 1a, 1b AND 1c ARE EFFECTIVE ON NOVEMBER 19, 1981.

- |   |   |          |   |   |
|---|---|----------|---|---|
| a) Diversion of run-on away from active portions of the fill?<br>(265.302(a)) [3745-68-02(A)] | — | <u>X</u> | — | — |
| b) Collection of run-off from active portions of the fill?<br>(265.302(b)) [3745-68-02(B)]    | — | <u>X</u> | — | — |
| c) Is collected run-off treated? [3745-68-02(B)]  | — | <u>X</u> | — | — |
| d) Control of wind dispersal of hazardous waste? (265.302(d)) [3745-68-02(D)]                 | — | <u>X</u> | — | — |

2. Surveying and Recordkeeping. Does the operating record include: [3745-68-09]

- |  |   |          |   |   |
|--|---|----------|---|---|
| a) a map showing the exact location and dimensions of each cell?<br>(269.309(a)) [3745-68-09(A)]                             | — | <u>X</u> | — | — |
| b) The contents of each cell and the location of each hazardous waste<br>type within each cell? (269.309(b)) [3745-68-09(B)] | — | <u>X</u> | — | — |

3. Closure and Post-Closure

- |  |   |          |   |   |
|--|---|----------|---|---|
| a) Is the closure Plan available for inspection?               | — | <u>X</u> | — | — |
| b) Has this plan been submitted to the Regional Administrator? | — | <u>X</u> | — | — |
| c) Has Closure begun?  | — | <u>X</u> | — | — |
| d) Is Closure cost estimate available by?                      | — | <u>X</u> | — | — |

RCRA INTERIM STATUS INSPECTION FORM

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>Remark #</u>
4. Special requirements for ignitable or reactive waste. (265.312(a)(B))				
a) Are ignitable or reactive waste treated so the resulting mixture is no longer ignitable or reactive?	—	—	<del>X</del>	—
<u>NOTE:</u> IF WASTE IS RENDERED NON-REACTIVE OR NON-IGNITABLE, SEE TREATMENT REQUIREMENTS. IF NOT, THE PROVISIONS OF 40 CFR 265.17(b) APPLY. [3745-65-17]				
5. Special requirements for Incompatible Wastes.				
a) Does the owner or operator dispose of incompatible wastes in separate cells? If not, the provisions of 40 CFR 265.17(b) apply. [3745-65-17]	—	—	<del>X</del>	—
6. Special requirements for Containers:				
Are empty containers crushed flat, shredded, or similarly reduced in volume before being buried beneath the surface of the landfill? (265.315) [3745-57-85]	<del>X</del>	—	—	# 18
7. Special requirements for Liquid Waste.				
Bulk or non-containerized liquid waste or waste containing free liquids is placed in a landfill having a liner and leachate collection and removal system meeting 264.301(a) requirements or is treated so that free liquids are no longer present. (265.314(a)) [3745-68-14(A)]	—	<del>X</del>	—	# 19
8. A written Post-Closure Plan is on file at the facility.	—	<del>X</del>	—	—
9. The Post-Closure Plan has been amended within 60 days in response to any changes in facility design or operation. (265.118(b))	—	<del>X</del>	—	—
10. The Post-Closure Plan has been submitted to the Regional Administrator/Director 180 days prior to beginning Closure. (265.118(c))	—	<del>X</del>	—	—
11. The property owner has attached a notation to the property deed or other instrument which will notify any potential purchaser that the property has been used to manage hazardous waste and future use of the property is restricted under Section 265.117(c) [3745-66-17(C)] as required in Section 265.120 [3745-66-10].	—	<del>X</del>	—	—

# 3 CRUSHED DRUMS VISIBLE LANDFILLS - 2  
# 19 NO PROVISIONS FOR LIQUIDS

